ORDER NO. ACED9903197

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CQ-FX88/77LEN

High-Power Cassette Player/RDS Receiver with Changer Control

< CQ-FX88LEN>

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol DD are trade marks of Dolby Laboratories Licensing Corporation.

Specifications*

General

Power Supply	: DC 12V(11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls	: Bass; ± 12dB at 100Hz Treble; ± 12dB at 10kHz
Current Consumption	: Less than 2.5A (Tape mode,0.5W 4-Speaker)
Maximum Power Output	: 60W × 4 (at 4Ω) <CQ-FX88LEN>
	: 40W × 4 (at 4Ω) <CQ-FX77LEN>
Center Speaker Output	: 5W <Only for CQ-FX88LEN>
Speaker Impedance	: 4 - 8Ω
Pre-Amp Output Voltage	: 4V <CQ-FX88LEN>
	: 2V <CQ-FX77LEN>

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dBμV (S/N 30dB)

MW Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 28dB/μV (S/N 20dB)

LW Radio

Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 32dB/μV (S/N 20dB)

Cassette Player

Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76cm/sec.
Frequency Response	: 30 - 17,000Hz (Nomal) 30 - 18,000Hz (Metal)
Wow and Flutter	: 0.12% (WRMS)

Dimensions**: 178(W) × 50(H) × 150(D)mm

Weight**
: 1.7kg <CQ-FX88LEN>
: 1.5kg <CQ-FX77LEN>

* Specifications and the design are subject to possible modification without notice due to improvements .

** Dimensions and Weight showm are approximate.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced proffesional technicians. Any attempt to service or repair the product or producs dealt with in this service information by anyone else could result in serious injury or death.

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Panasonic

(Recycled Paper)

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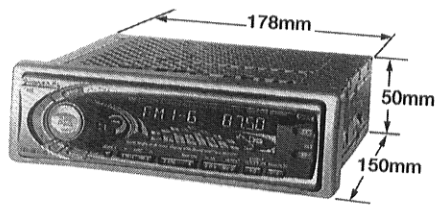
DIMENSIONS



WARNING!
Lithium batteries. Explosion danger.
Change of batteries must only be done by qualified personnel and as described in the service manual.
Furthermore, that the batteries must only be changed with batteries of the same manufacture and type.

ADVARSEL!
Lithiumbatterier. Exsplosionsfare.
Udskiftning må kun foretages af en sagkynkig og som beskrevet i servicemanualen.
Batterierne kun må udskiftes med batterier af samme fabrikat og type.

WARNING!
Lithium-Batterien. Esplosionsgefahr.
Die´ Batterien dürfen ner von qualifiziertem Personal und gemäß Beschreibung in der Wartungsanleitung ausgetauscht werden. Die Batterien dürfen ner durch Batterien des gleichen Herstellers und Typs ersetzt werden.

FEATURES

- 24-Stations Preset (18-FM, 6-AM).
- Radio Data System (PS, AF, CT, PI).
- Electronic Control of Volume, Bass, Treble, Balance and Fader.
- Detachable Face Plate Security.

REPLACING THE FUSE

Use fuses of the same specified rating (15A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvent.

ALIGNMENT JIG

- DOLBY NR ALIGNMENT;
  Test tape : RFKZ0038

Note:
This operating instruction manual is for two models CQ-FX88LEN and CQ-FX77LEN.
The differences between these models are mentioned below. All illustrations throughout this manual represent model CQ-FX88LEN unless otherwise specified.

Items \ MODEL	CQ-FX88LEN	CQ-FX77LEN
Output Power	60W	40W
Dolby NR System	B/C	B
Sub-Woofer Out	Yes (4V)	None
3•DSB with Center Speaker	Yes	None
Spectrum Analyzer	Yes	None
Level Meter	None	Yes
LCD Color	Multicolor	Blue
Pre-out Level	4 V	2 V

Precautions (ISO Connector)

- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

Table 1

Fig. 1 Pin No.	A4	A7
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply)
In case of Car type B	No Connection	Battery (permanent 12 V supply)

- Make sure the ISO connector arrangement in your car side is as the same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (ƒ) as shown in Fig.1.

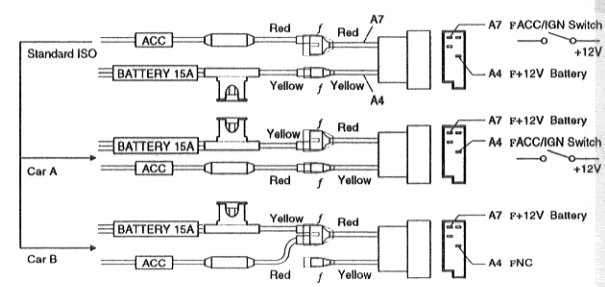
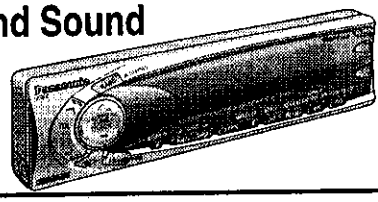
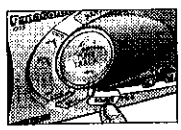


Fig.1

- After fixing the connections, the part (ƒ) should be insulated with electrical tape to keep away from unit damage.

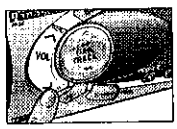
Power and Sound Controls





Power

Turn the key in the ignition until the accessory indicator lights.
Press **[SOURCE]**(PWR) to switch on the power.
Press and hold **[SOURCE]**(PWR) again for more than 2 seconds to switch off the power.
Note: When the power is switched on for the first time, a demonstration message appears on the display. To cancel this display, press [•](DISP/CT).

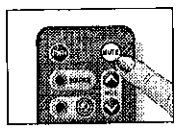


Volume

- Press [∧VOL] or [∨VOL] to increase or decrease the volume.

VOL 20 — Volume Level (0 to 40)

- Press [∧VOL] or [∨VOL] for more than 0.5 second to change the numeric level in sequence.



Mute (Only for remote control)

- Press **[MUTE]** to mute the sound completely.

MUTE

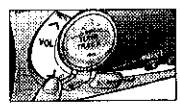
- Press **[MUTE]** again to cancel.

3•DSB (3-Dimensional Surround and Super Bass)

3•DSB and Loudness Combination

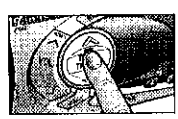
Press **[3•D]** to change the combination of the 3•DSB and loudness as follows.

3•DSB OFF LOUD OFF → 3•DSB ON LOUD OFF → 3•DSB OFF LOUD ON → (back to 3•DSB OFF LOUD OFF)



3•DSB Effect Level

- Press and hold **[3•D]** for more than 2 seconds when 3•DSB is on, and 3•DSB effect level can be adjusted (except during radio mode using the Virtual Stereo Effect).
- Press [∧VOL] or [∨VOL] to select one of the 10 volume levels (0 - 9).



3•DSB Center Speaker Volume (Only for CQ-FX88LEN)

- Press and hold **[3•D]** until "EFFECT" appears on the display when 3•DSB is on (except during radio mode using the Virtual Stereo Effect).
- Press [∧TUNE] or [∨TUNE] to change to the volume adjustment mode for center speaker.

EFFECT 6 (0 to 9) ⟷ CENTER SP 4 (0 to 7)

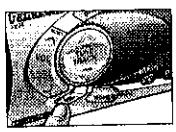
- Press [∧VOL] or [∨VOL] to select one of 8 levels (0 to 7) for the center speaker volume.

Notes:
- The spread of sound produced by the conventional 3•DSB can be further increased by using the center speaker.
- The center speaker sounds only when the 3•DSB is turned on (except in Virtual Stereo Effect mode).

3•DSB System
It is a new sound system combining 3-dimensional sound from two front speakers with rear channel super bass when receiving stereo broadcast. 3•DSB also gives you a sound with Virtual Stereo Effect from 4ch speakers when receiving AM monaural broadcast or FM broadcast in the monaural mode. The 3•DSB employs Spatializer® ICs of Desper Products, Inc.

Notes:
- If no operation is performed in the audio mode for 5 seconds (or 2 seconds in the VOL mode), the display will return from the audio mode to the regular operation mode.
- This unit is equipped with an anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened by sudden loud volume.
  This system operates as follows. When **[SOURCE]**(PWR) is first pressed to switch the unit on, the volume level is low. After that, the volume level will gradually return to the same level as the one before the power was turned off last time. The anti-volume-blast circuit will not work when the volume level is set lower than position 20 on the display.

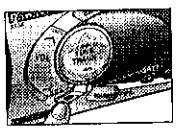
Power and Sound Controls (continued)



Audio Mode

Press **[SEL]** to change the audio mode setting as follows.

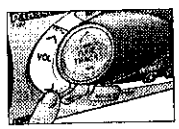
Regular Mode → VOL → BAS → TRE → BAL → FAD → Sub-Woofer (only for CQ-FX88LEN) → VOL



Bass and Treble

Press **[SEL]** to change to the bass (or treble) mode. Press [∧VOL] or [∨VOL] to increase or decrease the bass (or treble) level.

BAS+ 3dB (−12 to +12) TRE+ 3dB (−12 to +12)



Balance

Press **[SEL]** to change to the balance mode. Press [∧VOL] or [∨VOL] to shift the sound volume to the right or left speakers.

BAL L 2 (1 to 15) BAL CNT (Balance Center) BAL R 2 (1 to 15)

Fader

Press **[SEL]** to change to the fader mode. Press [∧VOL] or [∨VOL] to shift the sound volume to the front or rear speakers.

FAD F 3 (1 to 15) FAD CNT (Fader Center) FAD R 3 (1 to 15)

Selecting the Auxiliary Source

Press **[SOURCE]** to change to the AUX input mode.

AUX IN

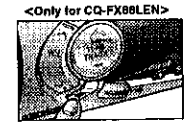
(Canceling the AUX input mode)

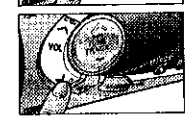
Press **[SOURCE]** in the AUX mode to resume the tuner mode.

Note: If no operation is performed in the audio mode for 5 seconds (or 2 seconds in the VOL mode), the display will return from the audio mode (BAS/TRE/BAL/FAD/SUB) to the regular operation mode.

Sub-Woofer

<Only for CQ-FX88LEN>





Sub-Woofer Volume

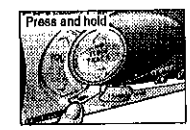
(Only for CQ-FX88LEN)

Press **[SEL]** to change to the sub-woofer volume mode. Press [∧VOL] or [∨VOL] to increase or decrease the sub-woofer volume.

SUBW 4

Sub-Woofer Volume Level: MUTE (0) to 8

Display Controls



Change to the Display Control Mode

① Press and hold **[SEL]** for more than 2 seconds to change to the display control mode.
② Press **[SEL]** to change the display control mode as follows.

For CQ-FX88LEN

Regular Mode —(Press and hold [SEL])→ SPECTRUM ANALYZER —(Press [SEL])→ DIMMER —(Press [SEL])→ Security Indicator → (Press [SEL]) → Regular Mode

For CQ-FX77LEN

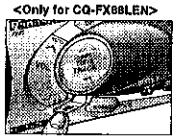
Regular Mode —(Press and hold [SEL])→ LEVEL METER —(Press [SEL])→ DIMMER —(Press [SEL])→ Security Indicator → (Press [SEL]) → Regular Mode

※ See page 43 about the Security Indicator.

Power and Sound Controls (continued)

Display Controls (continued)

<Only for CQ-FX88LEN>



Spectrum Analyzer Display Switching

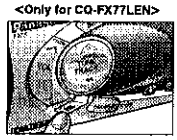
(Only for CQ-FX88LEN)

Press **[SEL]** in the display control mode to change to the spectrum analyzer change mode. Press **[^TUNE]** to change the spectrum analyzer setting as follows.

PATTERN 1 → PATTERN 2 → PATTERN 3 → PATTERN 4 → PATTERN 5 → PATTERN OFF → PATTERN 1

(**[vTUNE]** : opposite direction)

<Only for CQ-FX77LEN>



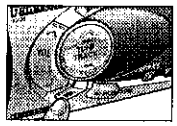
Level Meter

(Only for CQ-FX77LEN)

Press **[SEL]** in the display control mode to change to the level meter change mode. Press **[^TUNE]** to change the level meter setting as follows.

PATTERN 1 → PATTERN 2 → PATTERN 3 → PATTERN 4 → PATTERN 5 → PATTERN OFF → PATTERN 1

(**[vTUNE]** : opposite direction)



Dimmer

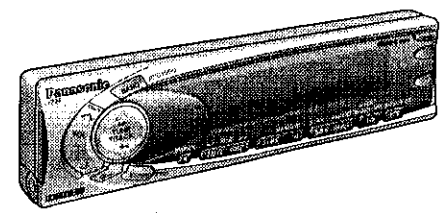
Press **[SEL]** in the display control mode to change to the dimmer change mode. Press **[vTUNE]** to change the dimmer level setting as follows.

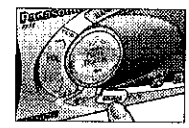
Dimmer 3 (Bright) → Dimmer 2 (Medium) → Dimmer 1 (Dark) → Dimmer 3 (Bright)

(**[^TUNE]** : opposite direction)

Note: If no operation is performed in the display control mode for 5 seconds, the display will return from the display control mode to the previous mode.

Radio Basics

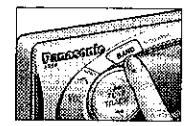




Tuner Mode

Press **[SOURCE]** to change the operation mode setting as follows.

Tuner → Cassette Tape player (When a tape is inserted) → CD changer control (When a CD changer is connected) → AUX → Tuner

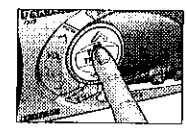


Band

Press **[BAND]** to change the band setting as follows.

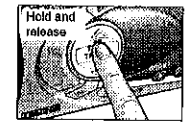
FM1 → FM2 → FM3 → AM(LW/MW) → FM1

The stereo indicator lights during reception of a stereo broadcast.



Manual Tuning

Press **[^TUNE]** or **[vTUNE]** to tune in a higher or lower frequency.



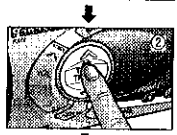
Seek Tuning

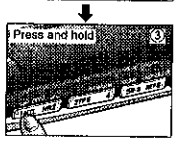
Press and hold **[^TUNE]** or **[vTUNE]** for more than 0.5 second, then release it. Tuning will automatically stop when the signals of the next broadcast station are received.

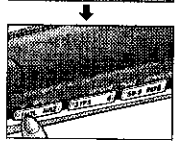
Radio Basics (continued)

Station Preset

FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories.







Manual Station Preset

① Press **[BAND]** to select a desired band.
② Use manual or seek tuning to find a station which is to be preset in the memory.
③ Press and hold one of the preset buttons **[1]** to **[6]** for more than 2 seconds until the display blinks.

Preset Number

Note: You can change the memory presetting by repeating the above procedure.

Tuning in a Preset Station

Press the corresponding preset buttons **[1]** to **[6]** to tune in a preset station.

Auto Station Preset

Select the band, press and hold **[BAND]**(AUTO•P) for more than 2 seconds (Auto Preset Memory).

- The 6 strongest available stations will be automatically saved in the memory on preset buttons **[1]** to **[6]**.
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the corresponding preset button for the broadcast you want to listen to.

Caution: To ensure safety, never attempt to preset stations while you are driving.

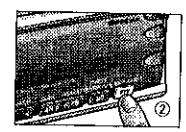
MONO/LOCAL Selection

- At the MONO setting, the amount of interference heard when weak signals are received from an FM broadcast station is significantly decreased.
- At the LOCAL setting, the station search stops automatically as soon as strong signals are received.

① FM broadcasts

Press and hold **[PTY]**(MONO/LOC) to change the mode until the desired mode is reached, then release it.

MONO OFF LOCAL OFF → MONO ON LOCAL OFF → MONO ON LOCAL ON → MONO OFF LOCAL ON → MONO OFF LOCAL OFF



② AM broadcasts

Press **[PTY]**(MONO/LOC) to switch on and off the Local mode as follows.

LOCAL OFF ⇄ LOCAL ON

RDS (Radio Data System) Reception

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)
When receiving condition becomes poor, an RDS station with the same program will be automatically selected.

EON (Enhanced Other Networks)
When EON data is received, the EON indicator lights and the TA and AF functions are expanded.
TA: Traffic information from not only the station now tuned in to but also other stations of the same network can be received.
AF: The frequency list of the RDS stations preset by received EON data is updated.

PS (Program Service Name)
When an RDS station is received, the RDS indicator lights and automatically displays the name of that station instead of the frequency. When [•](DISP/CT) is pressed during PS display, the frequency appears on the display for 3 seconds, then PS display returns.

PI (Program Identification)
If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

PTY (Program Type)
Program type identification signal
Example : News, rock, classical music, etc.

TA (Traffic Announcement)
When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a tape or CD changer or AUX source until it ends, then you will listen again to whatever you have been listening to.

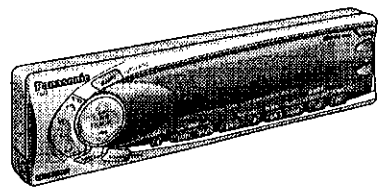
Best Station Research
If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

REG (Region)
The AF, Best Station Research, PI Seek functions will be as follows:
REG ON : The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.
REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

WHAT PROVIDES EON CAPABILITIES
EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

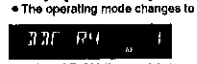
Note: When you're in "AF ON" mode, auto preset memory only works for RDS station. When in "TA ON" mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and switch to TA off in advance.

A. Basic Operation in RDS Reception (PS, AF, CT, PI)



RDS Reception

Press **[AF]** when receiving a station in the FM1, FM2 or FM3 band.
- The operating mode changes to AF ON or AF OFF, respectively.



- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
- Select AF OFF if the AF network of an RDS station is not necessary.

Changing AF Mode

Press **[AF]** to change AF ON and activate best station research at the same time. (3 seconds maximum)

.....AF 1 Mode

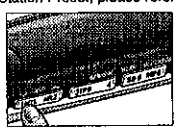
.....AF 2 Mode

.....AF OFF Mode

Notes:
1. Default mode is AF1.
2. AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF does not frequently operate even of sensitivity is temporarily lowered between skyscrapers, for example.
3. AF2 is for suburban areas with a higher level of sensitivity than AF1.

RDS (Radio Data System) Reception (continued)

For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (page 23 to 25).



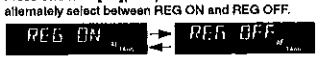
RDS seek tuning (PI seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station tuned in to.

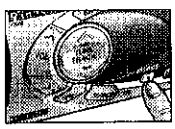
PI Seek: If best station research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program.

Region (REG) Switching

Press and hold **[AF](REG)** for more than 2 seconds in AF mode to alternately select between REG ON and REG OFF.

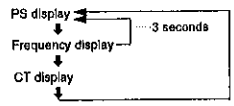


Note:
If you wish to stay with the same program, keep REG ON. If you keep REG OFF, there is a higher possibility of returning in to an AF station in better receiving condition.
The relationship of the PI seek function with REG ON and REG OFF is as described above.



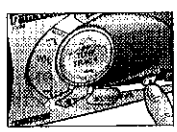
Changing Display

Press **[•](DISP/CT)** to change the display as follows.
(Frequency display continues for only 3 seconds, returning to PS display after that.)



Clock Time (CT) System

The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" appears on the display in areas where no CT service is available.



Clock Display

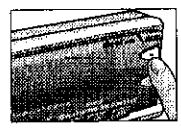
Press **[•](DISP/CT)** to indicate the clock display.

Initial Time Setting

Press **[BAND]** to change to AM mode.
① Press **[•](DISP/CT)**. " NO CT" appears on the display.
② Press and hold **[•](DISP/CT)** again for more than 2 seconds, "hours" blinks and the time setting mode is activated.
③ To set hours, press **[∧TUNE]** or **[∨TUNE]**.
Hold **[∧TUNE]** or **[∨TUNE]** change numbers rapidly.
④ Press **[•](DISP/CT)** again for minutes setting.
⑤ To set minutes, press **[∧TUNE]** or **[∨TUNE]**.
⑥ After setting the time, press **[•](DISP/CT)**.

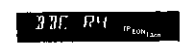
Notes:
- If CT display is kept on, it remains on even if **[SOURCE](PWR)** and accessory are turned off and back on again.
- In other modes, press **[•](DISP/CT)** to get RDS CT-service.

B. TP Reception

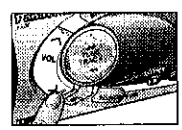


Select traffic information (TA on) mode

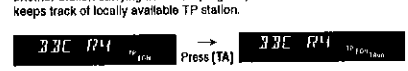
Press **[TA]** to switch on and keep it there when you wish to listen to traffic information. Press **[TA]** again to switch off.



Volume Setting (Only for TA on mode)
Adjust the volume as desired using **[∧VOL]** or **[∨VOL]** while receiving traffic announcement. (TA)
After volume for traffic announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.
Normal volume can be changed up to 5 levels upward or downward.
If an adjusted level of volume is over 40 or less than 0, any further change will not be made.



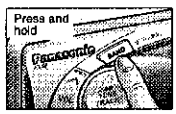
When receiving a station other than TP station (including EON stations)
A traffic information station is automatically searched for and the radio automatically stops the next available TP station.
EON Capabilities:
EON lets the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.



RDS (Radio Data System) Reception (continued)

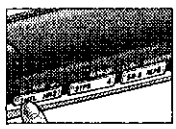
TP Seek Tuning

Press [∧TUNE] or [∨TUNE] for more than 0.5 second, then release. The radio automatically stops at the next available TP station.



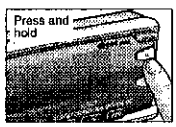
Auto TP Station Preset

Press and hold [BAND](AUTO•P) for more than 2 seconds. The six strongest available TP stations are automatically saved in the memory on the preset button [1] to [6].
Once saved, the preset stations are sequentially scanned for 5 seconds each.



Tuning in a TP station preset

Press any of the preset buttons [1] to [6] that you want to listen to. Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

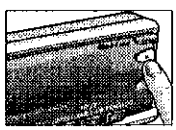
Press and hold [TA] for more than 2 seconds to light "TA on".
Then traffic announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.

Muting TA on canceling (Muting TA on → TA on)

Press [TA] again.
Or press [∧VOL] to increase the volume level.

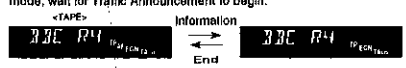
TP Auto Search

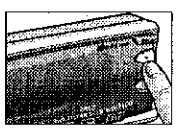
If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.



Tape/CD•C/AUX TA on

Press [TA] during tape, CD changer or AUX mode.
When TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to begin.



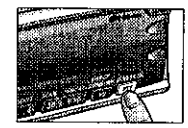


Switching to TA off Mode

Select either one of the following steps.
- Press [TA] when TA is on.
- Press and hold [TA] for more than 2 seconds when Muting TA is on.
- Press [TA] when tape/CD•C/AUX TA is on.

C. PTY Reception

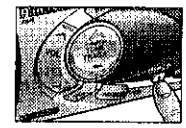
(There are some areas where PTY service may not be available.)



Switching to PTY mode

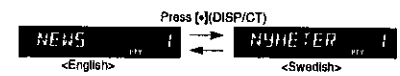
Press [PTY] to select PTY display mode, and the PTY of the broadcast now received appears on the display.

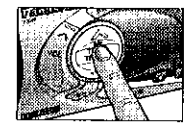
"NO PTY" appears on the display if there is no corresponding program type.



Changing PTY Display Language

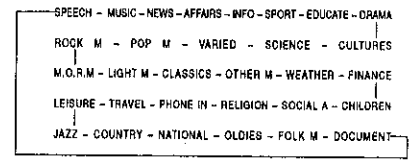
Press [•](DISP/CT) in PTY mode to alternate the language between English and Swedish.





Program Type Selection

Press [∧TUNE] or [∨TUNE] to select the program type as follows.


SPEECH - MUSIC - NEWS - AFFAIRS - INFO - SPORT - EDUCATE - DRAMA
ROCK M - POP M - VARIED - SCIENCE - CULTURES
M.O.R.M - LIGHT M - CLASSICS - OTHER M - WEATHER - FINANCE
LEISURE - TRAVEL - PHONE IN - RELIGION - SOCIAL A - CHILDREN
JAZZ - COUNTRY - NATIONAL - OLDIES - FOLK M - DOCUMENT

When a desired selection has been made, press [BAND]. Then automatic seek will start to tune in to the station broadcasting the selected program type.

Note:
Seek tuning does not operate as long as "NO PTY" appears on the display.

RDS (Radio Data System) Reception (continued)

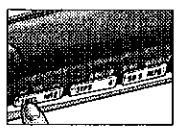
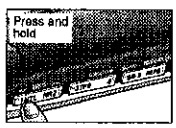


TABLE of PTY CODE and Program Type

Press any of the preset buttons [1] to [6] according to your preference. Those buttons already have the program types as follows. (Default setting)

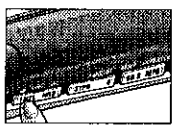
<PRESET PTY>

Preset No.	1	2	3	4	5	6
Program Type	NEWS	SPEECH	SPORT	POP. MUSIC	CLASSICS	MUSIC
Display	NEWS 1	SPEECH 2	SPORT 3	POP M 4	CLASSICS 5	MUSIC 6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



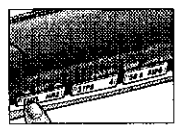
Program Type Preset

Press and hold one of the buttons [1] to [6] for more than 2 seconds to preset the desired program type selection in the button.



Tuning in a PTY Preset Station

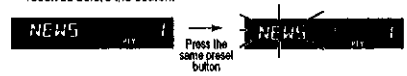
Press any of the preset buttons [1] to [6] that you want to listen to.



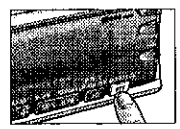
Searching for PTY

① Select the desired station from preset in the preset number buttons [1] to [6]. Then, the preset PTY and that preset number appear on the display for 5 seconds.

② While the desired type from 6 presets appears on the display, take either of the following steps.
A) Press the same preset button again.
B) Press [BAND].
If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.



Press the same button again to cancel.



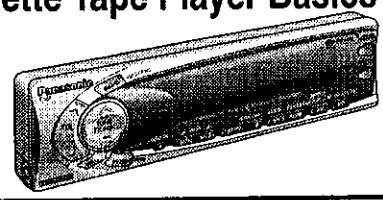
Canceling of PTY Mode

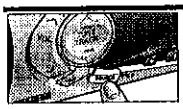
Press [PTY] to cancel.
The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)
If an emergency announcement is broadcast in muting TA on/tape/CD changer/AUX mode, the radio is automatically selected to receive the emergency announcement. "ALARM" blinks.

Cassette Tape Player Basics

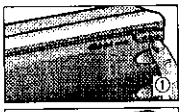




Mode Selection

Press [SOURCE] to change the operation mode setting as follows.

Tuner → Cassette Tape player (When a tape is inserted) → CD changer control (When a CD changer is connected) → AUX → Tuner



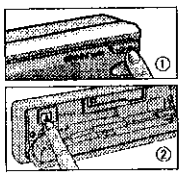
Loading a Tape

① Press [OPEN] to open the front panel.
② Insert a cassette with the exposed tape side facing to the right. Close the front panel manually. Play will start automatically.

Program Indicator → A TAPE PLAY

Caution:
Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.

Note:
- While inserting a cassette tape, the volume decreases to 0 level (MUTE). And the volume is back to the previous level when the front panel is closed completely.
- While a tape is inserted, "⊟" indicator lights.

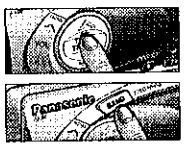


Ejecting the Tape

① Press [OPEN] to open the front panel.
② Press [⏏] to eject the tape. After the tape is removed, close the front panel manually. The previous operation mode will resume.

Caution:
When ejecting a cassette tape, do not close the front panel until the cassette tape is ejected and removed from the cassette slot completely.

Notes:
- Always remove the cassette tape from the unit when the cassette tape player is not being used.
- While ejecting a cassette tape, the volume decreases to 0 level (MUTE). And the volume is back to the previous level when the front panel is closed completely.

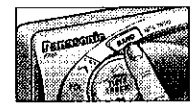


Rewind and Fast Forward

Press [◄◄TRACK] or [►►TRACK] to activate rewind or fast forward of the tape.

A FF

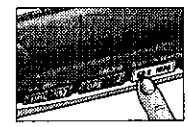
Press [BAND](PRG) to stop.



Changing Sides

Press [BAND](PRG) to reverse.

A TAPE PLAY → TOP SIDE PLAYING
B TAPE PLAY → BOTTOM SIDE PLAYING



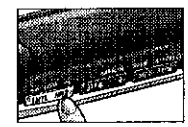
Blank Skip

- Press [5](B•S) to skip long unrecorded portions on the tape.
- Press [5](B•S) again to cancel.

Notes:
- When repeat is on, the blank skip does not work because the repeat has priority over the blank skip.
- The blank skip does not work when an unrecorded portion of a tape is less than 15 seconds.

Repeat Play

- Press [6](REP) to repeat the current selection.
- Press [6](REP) again to cancel.



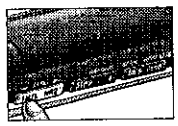
Dolby Noise Reduction

(Only for CQ-FX88LEN)
- Press [2](NR) to set the Dolby B NR mode.
- Press [2](NR) again to set the Dolby C NR mode.
- Press [2](NR) again to cancel.

(Only for CQ-FX77LEN)
- Press [2](NR) once to set the Dolby B NR mode.
- Press [2](NR) again to cancel.

Notes:
- Set the Dolby B NR mode when playing back a tape recorded with Dolby B Noise Reduction.
- Set the Dolby C NR mode when playing back a tape recorded with Dolby C Noise Reduction.

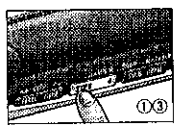
Cassette Tape Player Basics (continued)



Metal Tape Mode

- Press [1](MTL) when playing metal or chromium dioxide (CrO_2) tapes.
- Press [1](MTL) again to cancel.

Note: Playing non-metal tapes in MTL mode causes high frequency imbalance, which affects tone quality.



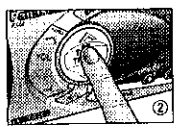
TPS Operation (Tape Program Search)

① Press [3](TPS) to activate the Tape Program Search mode.

A TPS PLAY

② To select a desired program, press [∧TUNE] or [∨TUNE] corresponding times to go forward (up to 9) or backward (up to 9).

(Fast forward:) 1 ---------- 9
(Rewind:) 0 ---------- 8



Ex.1. To select the current program again, press [3](TPS) and [∨TUNE]. → ATPS REW 0
Ex.2. To select last program, press [3](TPS) and [∨TUNE] twice. → ATPS REW 1
Ex.3. To select next program, press [3](TPS) and [∧TUNE]. → ATPS FF 1
Ex.4. To select the 3rd next program, press [3](TPS) and [∧TUNE] three times. → ATPS FF 3

③ Press [3](TPS) again to cancel.

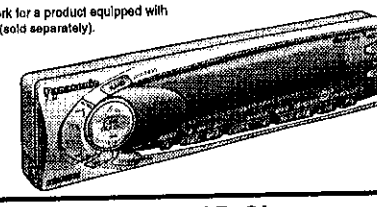
Notes:
The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.
- There is an interval less than 3 seconds or having a high level of noise or hum between programs.
- There is particularly low-level passage during the program.

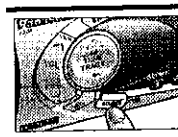
Notes:
- To maintain your cassette player in top condition, avoid using tapes that are longer than 90 minutes (C-90).
- If you insert into the unit a cassette with a loose tape caused by forcing it into cassette with a finger or the like, the cassette may not be properly reproduced. In such a case, eject the cassette, make the tape tight, then insert it back into the deck.

CD Changer Basics

When the unit is connected with a CD text recognizable CD changer (CX-DP906IEN, for example), CD text can appear on the display.

Note:
The CD changer functions work for a product equipped with the optional CD changer unit (sold separately).



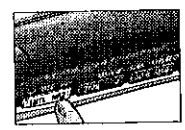


Starting the CD Changer

Once the CD changer has been connected, press [SOURCE] to change to the CD changer mode as follows. When a disc magazine is inserted, CD play starts automatically.

Tuner → Cassette Tape player (When a tape is inserted) → CD changer control (When a CD changer is connected) → AUX → Tuner

1-01 0'10

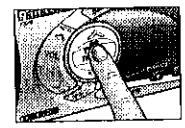


Disc Selection

Press [1](∨DISC) or [2](∧DISC) to select a disc in descending or ascending order.

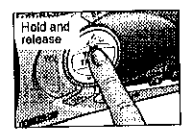
3-01 12'34

Then, the selected disc will start to play from the first track.



Track Selection

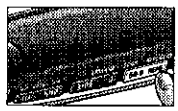
- Press [►►TRACK] to advance to the next track.
- Press [◄◄TRACK] to start play from the beginning of the track now playing.
- Press [►►TRACK] or [◄◄TRACK] repeatedly to skip the desired number of tracks.



Track Search

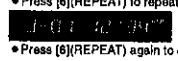
- Press and hold [►►TRACK] or [◄◄TRACK] for more than 0.5 second to advance or reverse through a track.
- Release [►►TRACK] or [◄◄TRACK] to resume regular CD changer play from the released position.

CD Changer Basics (continued)

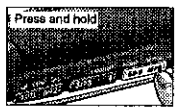


Track Repeat

- Press [6](REPEAT) to repeat the current selection.

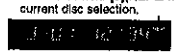


- Press [6](REPEAT) again to cancel.

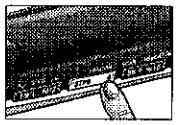


Disc Repeat

- Press and hold [6](REPEAT) for more than 2 seconds to repeat the current disc selection.

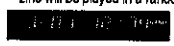


- Press and hold [6](REPEAT) for more than 2 seconds again to cancel.

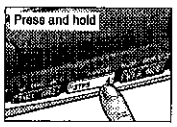


Track Random

- Press [4](RANDOM). All the available tracks on all discs in the magazine will be played in a random sequence.

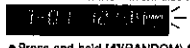


- Press [4](RANDOM) again to cancel.



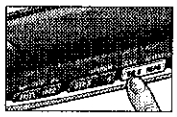
Disc Random

- Press and hold [4](RANDOM) for more than 2 seconds. All the available tracks on the current disc will be played in a random sequence.



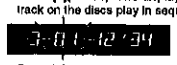
- Press and hold [4](RANDOM) for more than 2 seconds again to cancel.

Note: When [6](REPEAT) is pressed in the random mode, random play stops and repeat play starts.



Track Scan

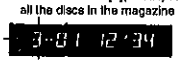
- Press [5](SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.



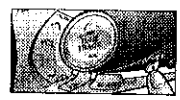
- Press [5](SCAN) again to cancel.

Disc Scan

- Press and hold [5](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.

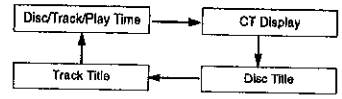


- Press and hold [5](SCAN) for more than 2 seconds again to cancel.



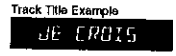
Changing the Display

Press [•](DISP/CT) to change the display as follows.



Disc Title Example

Track Title Example



When [•](DISP/CT) is pressed for more than 2 seconds while the Track Title or Disc Title appears on the display, the Title display scroll can be switched on or off. **(Default:** the Title display scroll on)

Notes:

- Track title or disc title appears on the display only when the unit is connected to a CD changer that can recognize CD text (CX-DP9061EN, for example).
- "NO TITLE" appears on the display if a disc which does not support the text display has been loaded.

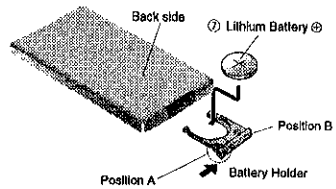
Error Display Messages

	Appears on the display when the compact disc is dirty or upside down. Selects the next available compact disc.
	Appears on the display when compact disc is scratched. Selects the next available compact disc.
	Appears on the display when the unit stops operating for some reason. Press [RESET] on the CD changer (optional).
	Appears on the display when there is no disc in the magazine.

Remote Control Basics

Battery Replacement:

1. Remove the battery holder.
   Take hold of the holder at position B and pull it out to remove the battery by pushing position A in the direction shown by the arrow.
2. Replace the battery.
   Set a new battery properly with its (+) side facing up as shown in the figure.
3. Insert the battery holder.
   Push in the battery holder back into its original position.



Battery Notes:

Remove and dispose of an old battery immediately.
Battery Information:

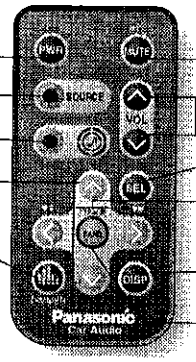
- Battery type: Panasonic lithium battery (CR2025)
- Battery Life: 6 months with normal use (at room temperature)

Caution:
Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire.
Battery leakage may damage the unit.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries out of the reach of children to avoid the risk of accidents.

Main Controls:

For details of each function, refer to the pages in parentheses. Some of the functions may not be usable even if they are shown.



Power Button (Refer to page 18.)
SOURCE Button (Refer to page 23,34,37.)
3•DSB Button (Refer to page 19.)
DISC Up/Down Buttons (Refer to page 37.)
Spectrum Analyzer/Level Meter/DIMMER Button (Refer to page 22.)

MUTE Button (Refer to page 18.)
Volume Control Buttons (Refer to page 18.)
SEL Button (Refer to page 20,21,22.)
TUNE, Rewind/Fast Forward Buttons (Refer to page 23,30,31,34,37.)
DISP Button (Refer to page 28,29,31,39.)
BAND/Auto Preset Memory/ Program/Stop Button (Refer to page 23,24,35.)

Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

① Switch off the power.
② Press [OPEN]. The face plate will be opened.

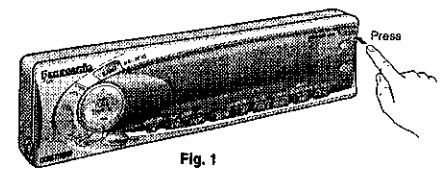


Fig. 1

③ Push the face plate to either the right or left, then pull it out toward you.

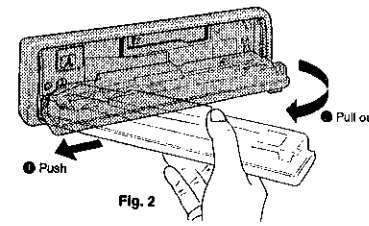


Fig. 2

④ As shown in Fig.3, gently push the lower side of the case and open its cover. Keep the face plate in the case. Then, you can bring the plate safely.

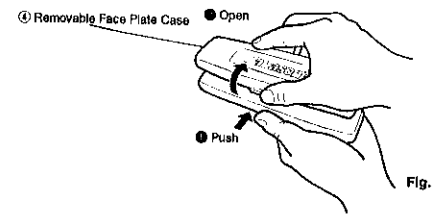


Fig. 3

Anti-Theft System (continued)

To Install the Removable Face Plate

① Fit either the edge of the right or left hole in the face plate over the main unit's pins, and fit it over on the other side while pushing it.

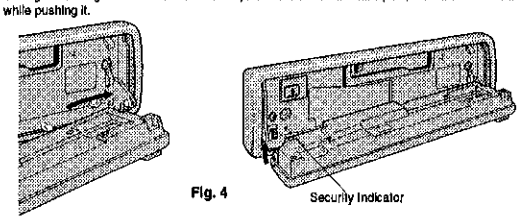


Fig. 4

② After fitting the face plate holes, try moving the face plate up and down a few times to make sure that it has been fitted securely.

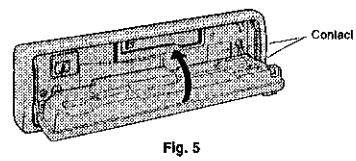


Fig. 5

③ Close the front panel and press the right side of the face plate until a "click" is heard.

Cautions:
1. Before removing the face plate, make sure the power is off.
2. The face plate is not water proof. Do not expose it to water or excessive moisture.
3. Do not remove the face plate while driving your car.
4. Do not place the face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them off with clean, dry cloth.
7. Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit.

Activate Security Indicator

1.① Press and hold **[SEL]** for more than 2 seconds to change to the display control mode when the power is on.
② Press **[SEL]** in the display control mode to change to the security indicator mode. (See page 21.)
③ Press **[∧TUNE]** or **[∨TUNE]** to turn the security indicator on or off.
(Default: The security indicator is on.)

Note: "LED ON" appears on the display when the security indicator is on.

2. To check whether the unit is set in the LED ON mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Panel Removal Alarm
LED On	Blinks	ON
	(Press [∧TUNE] or [∨TUNE].)	
LED OFF	OFF	OFF

Note: If no operation is performed in the display control mode for 5 seconds, the display will return from the display control mode to the previous mode.

Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is activated when the security indicator is on.

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Caution:
For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

In-dash Installation

Installation Opening
In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig.
1. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

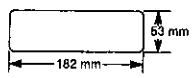


Fig. 1

Installation Precautions

This product, if possible, should be installed by a professional installer.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.
1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connections on page 48 to 49 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardwares

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mm⌀)		1
③	Power Connector		1
④	Removable Face Plate Case		1
⑤	Remote Control Unit		1
⑥	Trim Plate		1

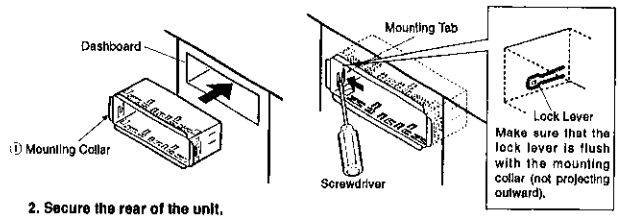
No.	Item	Diagram	Q'ty
⑦	Lithium Battery		1
⑧	ISO Antenna Adaptor		1
⑨	Center Speaker (Only for CQ-FX88LEN)		1
⑩	Center Speaker Extension Cord (Only for CQ-FX88LEN)		1
⑪	Magic Tape (Only for CQ-FX88LEN)		2

Installation Procedures

Note: Disconnect the cable from the negative (–) battery terminal.

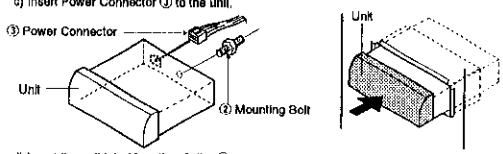
1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the dashboard, and bend the mounting tabs out with a screwdriver.


Dashboard
① Mounting Collar
Mounting Tab
Screwdriver
Lock Lever
Make sure that the lock lever is flush with the mounting collar (not projecting outward).

2. Secure the rear of the unit.

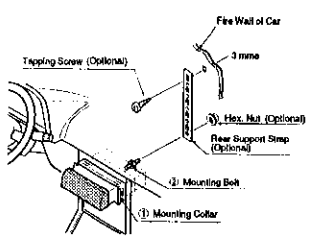
a) Check the electrical connections by referring to this operating instructions.
b) Connect Mounting Bolt ②, using a suitable wrench.
c) Insert Power Connector ③ to the unit.

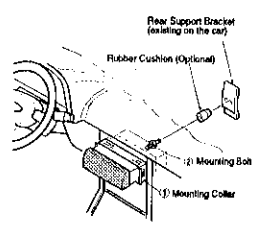


d) Insert the unit into Mounting Collar ① and push it in until a "click" is heard.
e) Secure the rear of the unit to the car by one of the two recommended methods.

■ Using the Rear Support Strap (Optional)
Affix one end of Rear Support Strap to the rear of the unit, and the other end to the fire wall of the car, or some other metallic area.

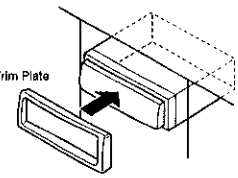
■ Using the Rubber Cushion (Optional)
(If there is an existing Rear Support Bracket on the fire wall of the car.)
Cover Mounting Bolt ② on the rear of the unit with Rubber Cushion, and mount it into the existing Rear Support Bracket.





Installation (continued)

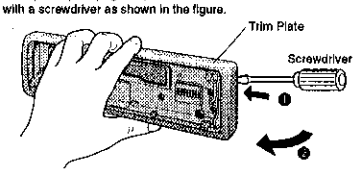
3. Insert Trim plate ⑥.



4. After installation, reconnect the negative (–) battery terminal.

To Remove the Unit

a) Remove the removable face plate. (See page 41.)
b) Remove Trim Plate ⑥ with a screwdriver as shown in the figure.



c) Pull out the unit while pushing the two lock levers using a screwdriver. (Fig. 1, Fig. 2)
d) Remove the unit by pulling it with both hands. (Fig. 3)

Fig. 1

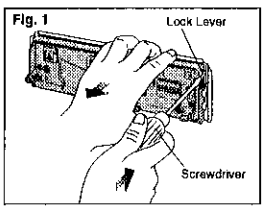


Fig. 2

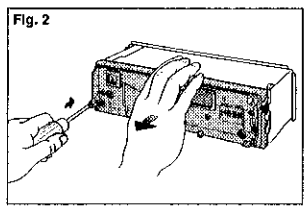
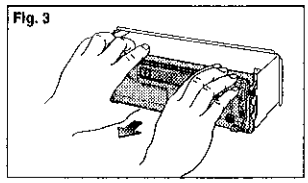


Fig. 3



Mounting the Center Speaker (Only for CQ-FX88LEN)

- Attach the two pieces of magic tape (hook side) to the rear of the Center Speaker (Fig. 1).
- Attach the other two pieces of magic tape (loop side) on a flat surface of the dashboard as close as possible to the center (Fig. 2).
- Connect the speaker cord referring to the electrical connection and mount the Center Speaker (Fig. 2).

Fig. 1

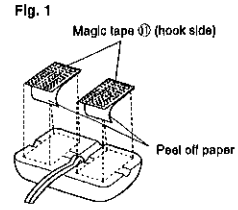
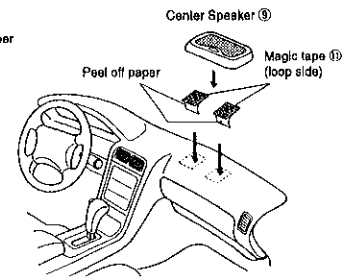


Fig. 2

Mount the Center Speaker ⑨ as close as possible to the center.

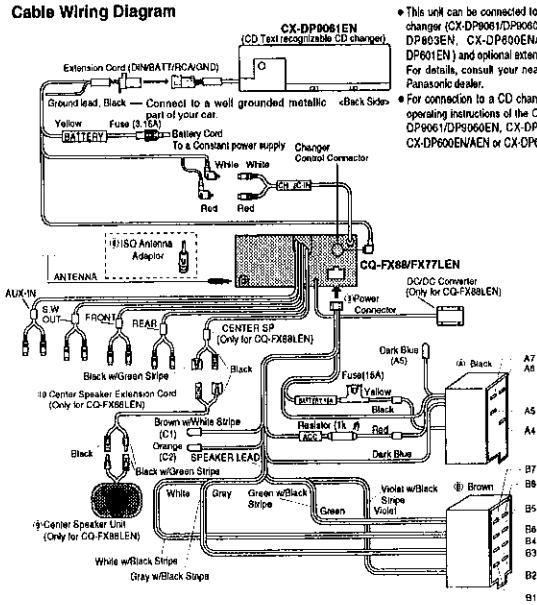


Note: A magic tape fastener has two sides. One is provided with loops and the other with hooks that hook into the loops.

Electrical Connections

Cautions:
- Confirm the note on page 4 and make connections to the connectors on unit side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 9 mm long from them and before connecting (except for ISO connector's cords).
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.

Cable Wiring Diagram



- This unit can be connected to an optional CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN) and optional extension cord. For details, consult your nearest authorized Panasonic dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN).

Loudspeakers (connector B)

	Left +	Left –	Right +	Right –
Front	B5 (White)	B8 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B6 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

A4

BATTERY LEAD (To Battery of Car) (Yellow)
Connect to the "BAT" terminal on the fuse block of the car.
The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

A5

MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.
AMP. RELAY CONTROL POWER LEAD
This lead is for connection to Panasonic power amplifier.

A7

POWER LEAD (Red)
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

A8

GROUND LEAD (Black)
Connect to a well grounded metallic part of your car.

C1

Not used

C2

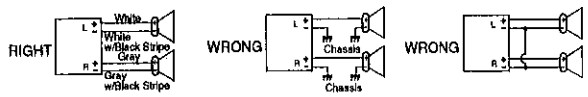
TELEPHONE MUTE LEAD (Orange)
(To car telephone mute line)
TELEPHONE MUTE
The telephone mute lead, if connected to the car telephone mute line, will activate the muting circuit and the sound from the speakers cannot be heard while the telephone conversation is in progress.
Note: This telephone mute lead is for connection only to the radio mute line. Be sure to ascertain this because it will not work with other type of output system.

Speaker Connections

Cautions:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 50W (CQ-FX88LEN), 45W (CQ-FX77LEN) of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or the unit.
4. Do not use 2-wire type speaker system having a common earth lead. Never connect the speaker lead to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 50cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

- **Unit will be damaged if speakers (Front, Rear) are not connected properly.**



- **Do not connect more than one speaker to one set of speaker leads.**

NOTE: Recommended External AMP Combination (Example)

Preamp out (rear/front) →CY-M9054 (4ch system)
Sub-Woofer out →CY-M9054 (2ch system)
or
CY-M7052 (1ch system)

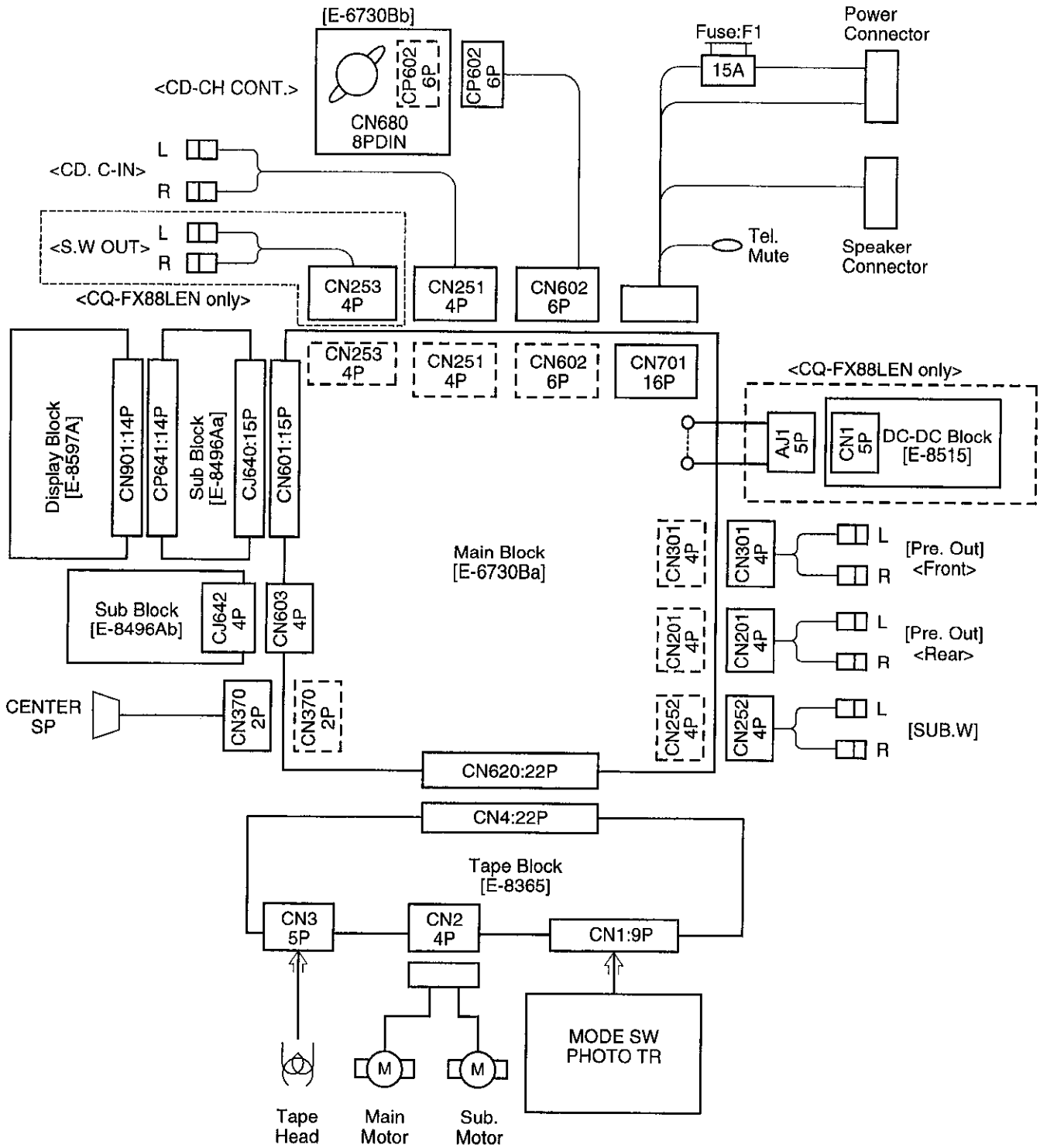
Fuse

Use fuses of the same specified rating (15A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, contact your nearest authorized Panasonic Service Center.

Maintenance

Your product is designed and manufactured to ensure the minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvents.

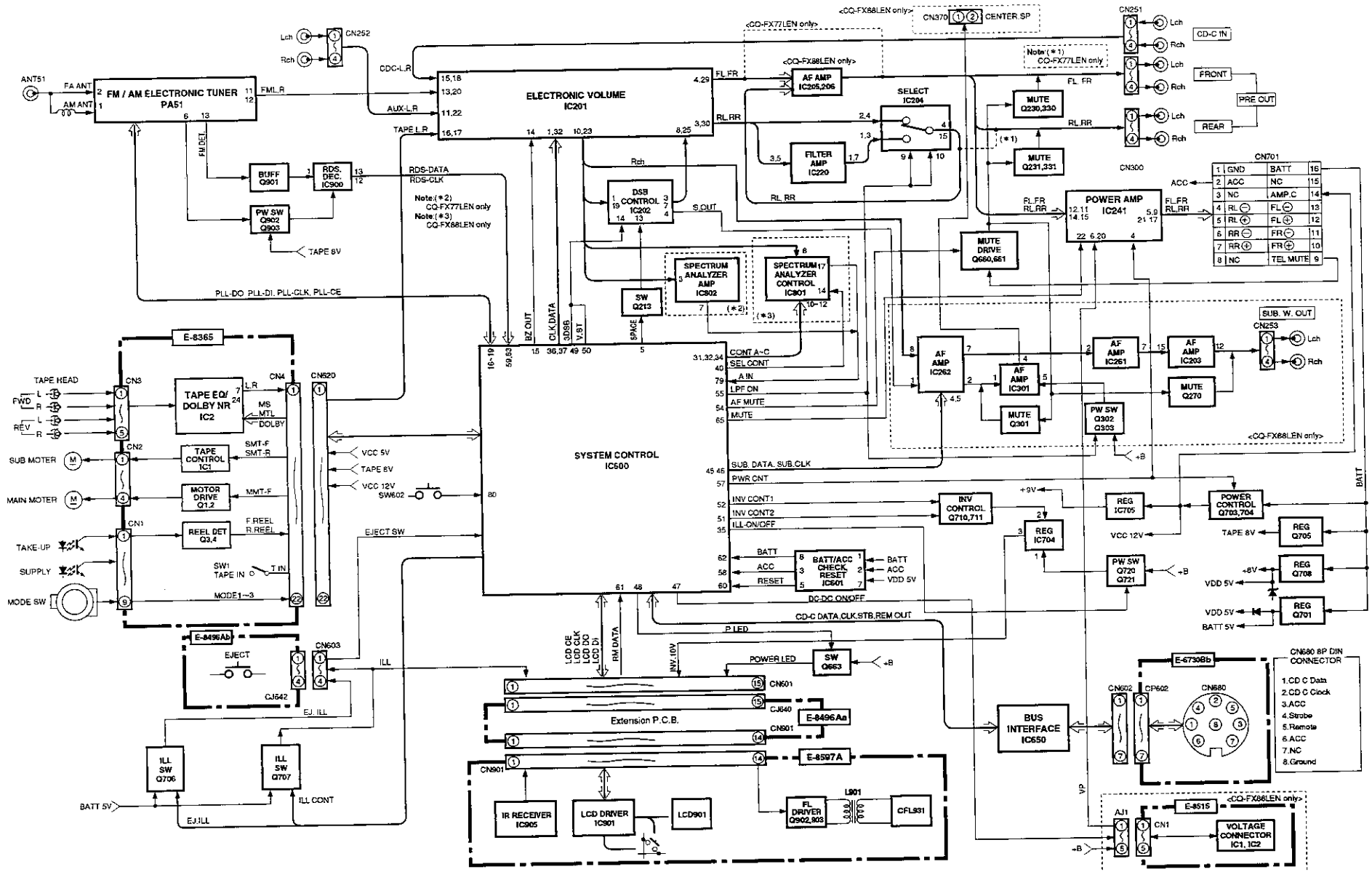
WIRING CONNECTION



▭ .....This mark shows a Ref. No. of connector

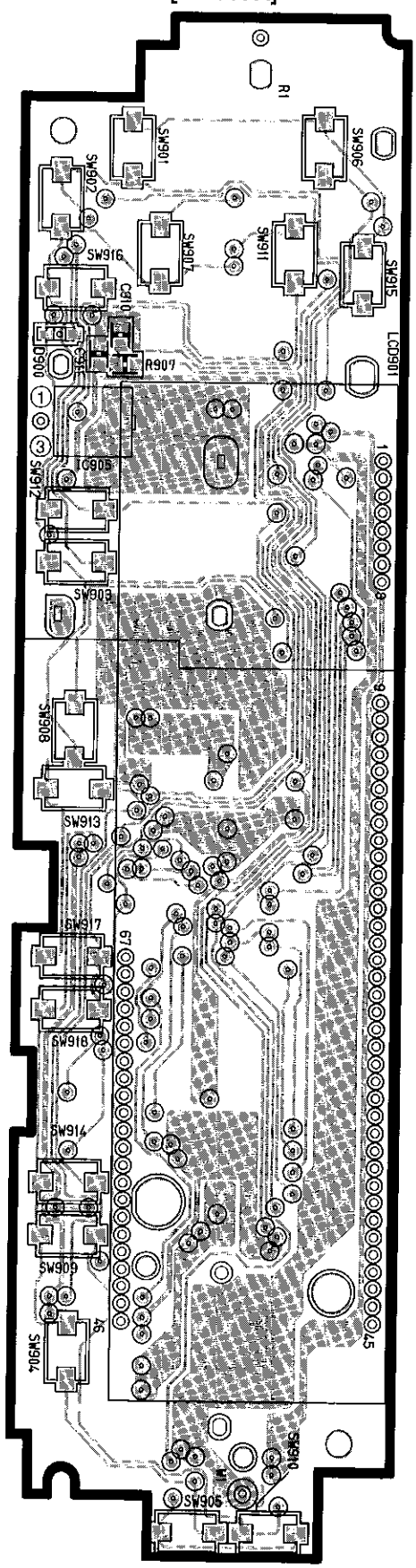
▭ .....This mark shows a mounting position of connector.

BLOCK DIAGRAM MODELS CQ-FX88/77LEN

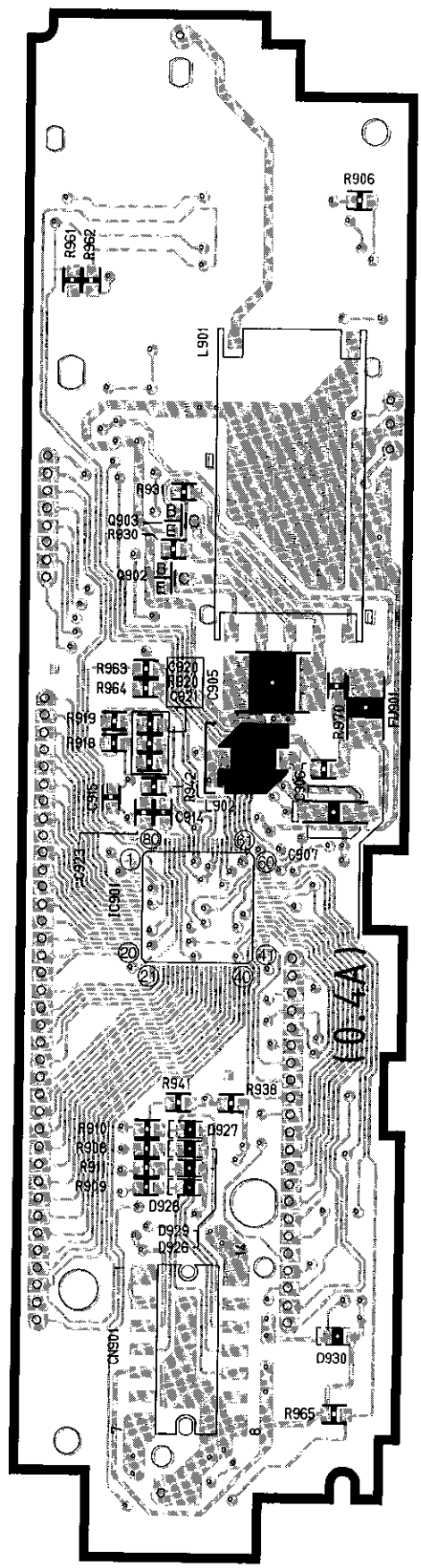


WIRING DIAGRAM (Display Block) MODELS CQ-FX88/77LEN

[E-8597A]



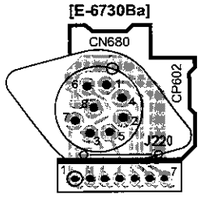
<TOP VIEW>



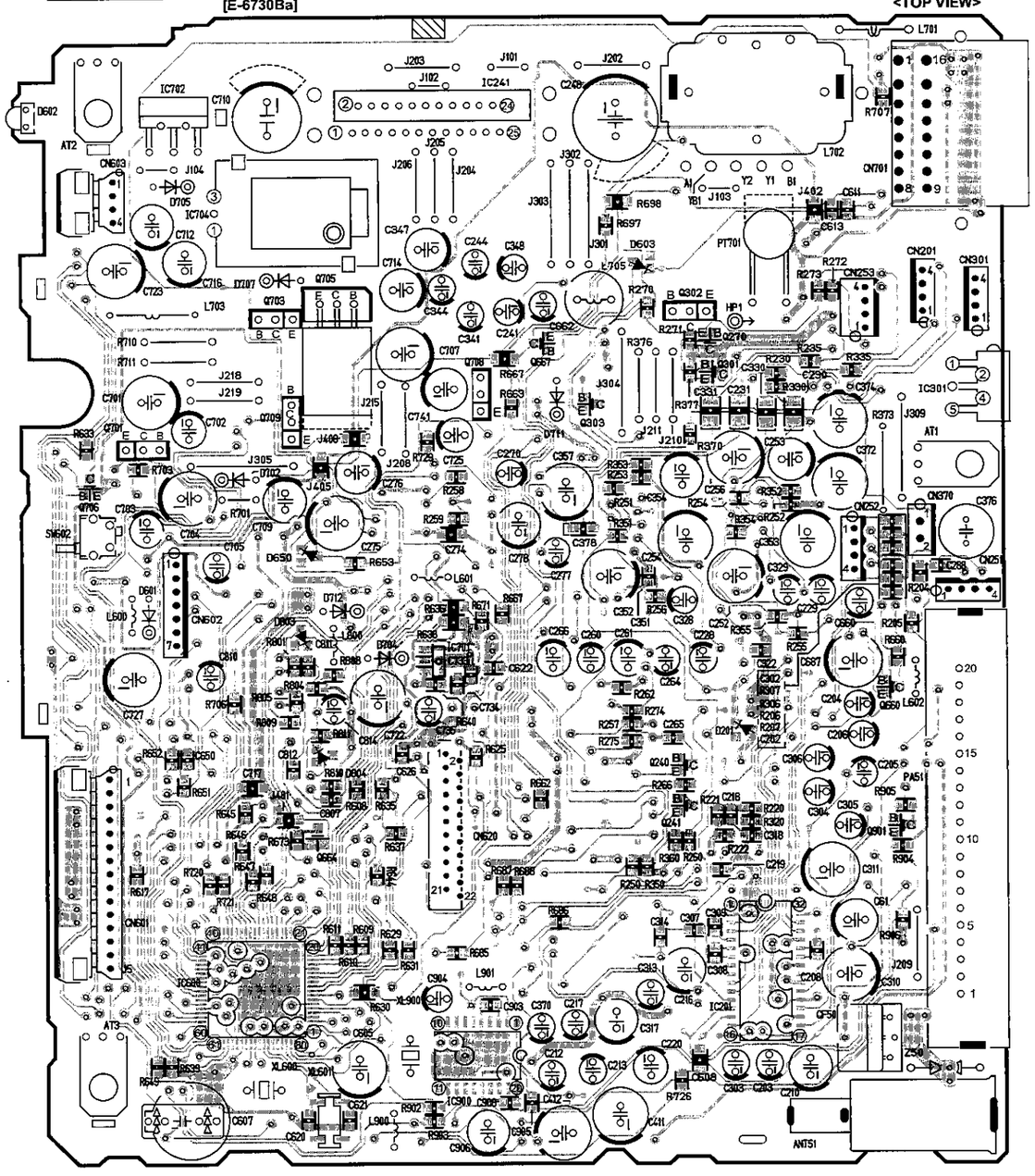
<BOTTOM VIEW>

WIRING DIAGRAM (Main Block) MODELS CQ-FX88/77LEN

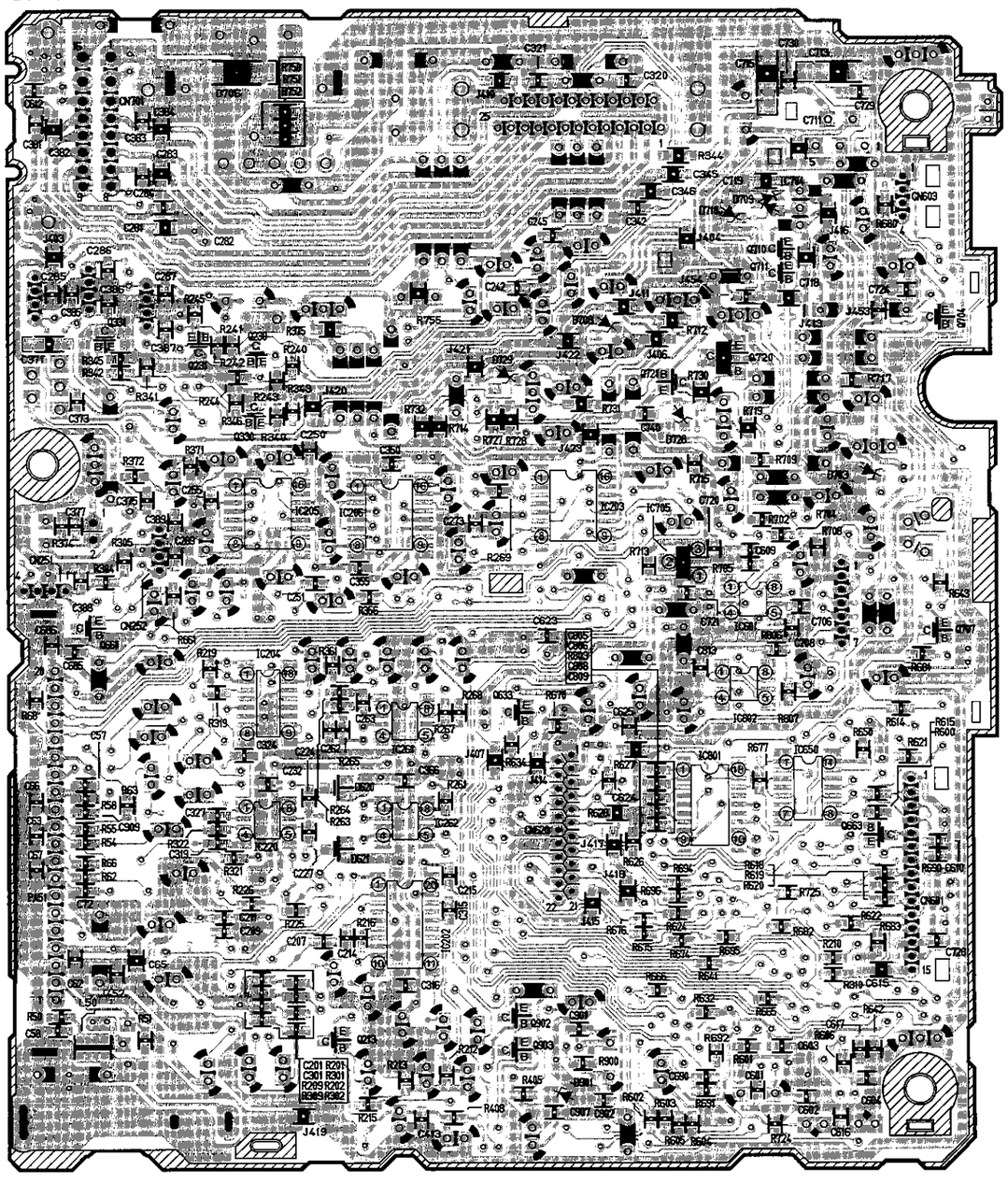
[E-6730Ba]



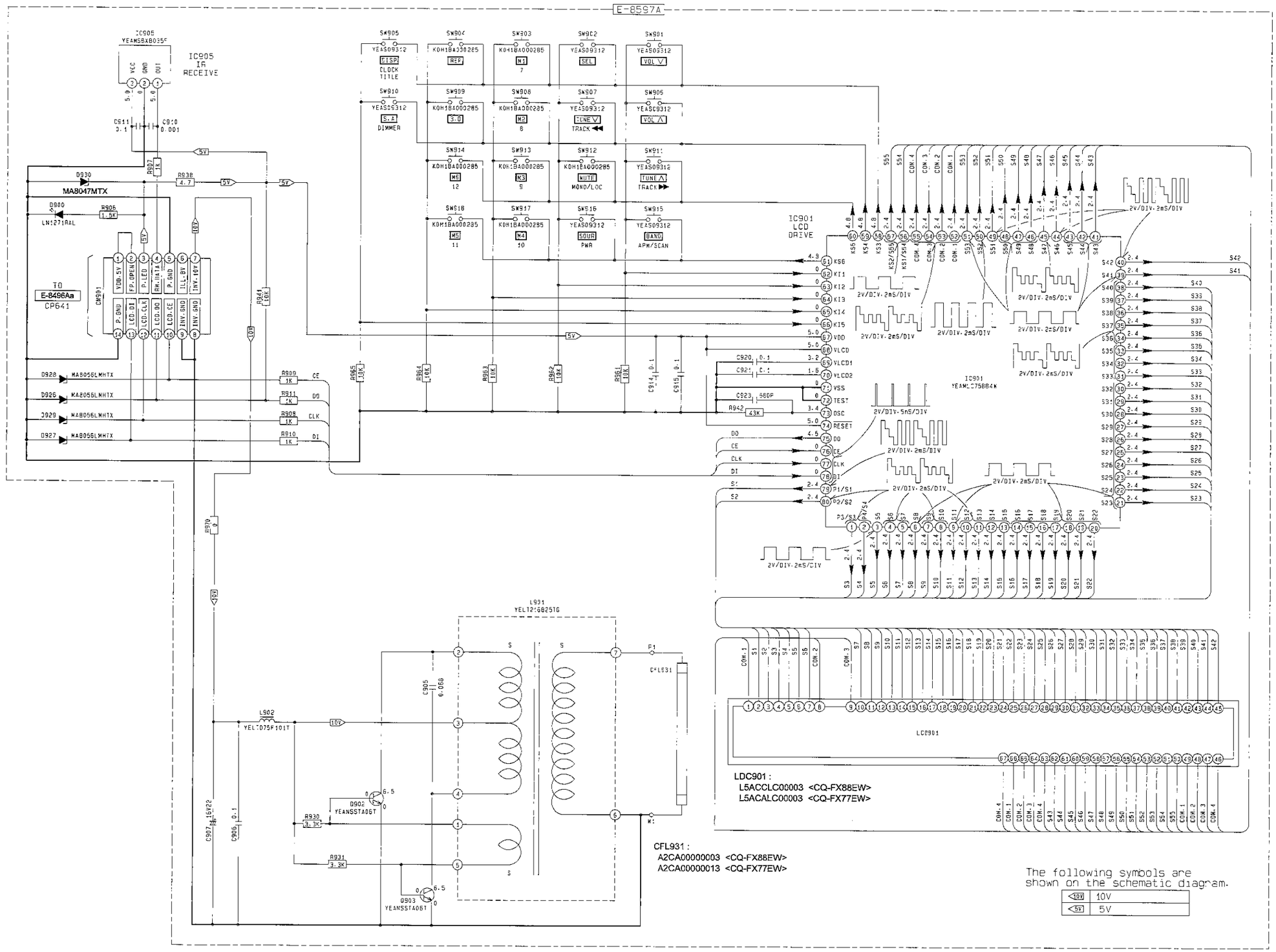
[E-6730Ba] <TOP VIEW>



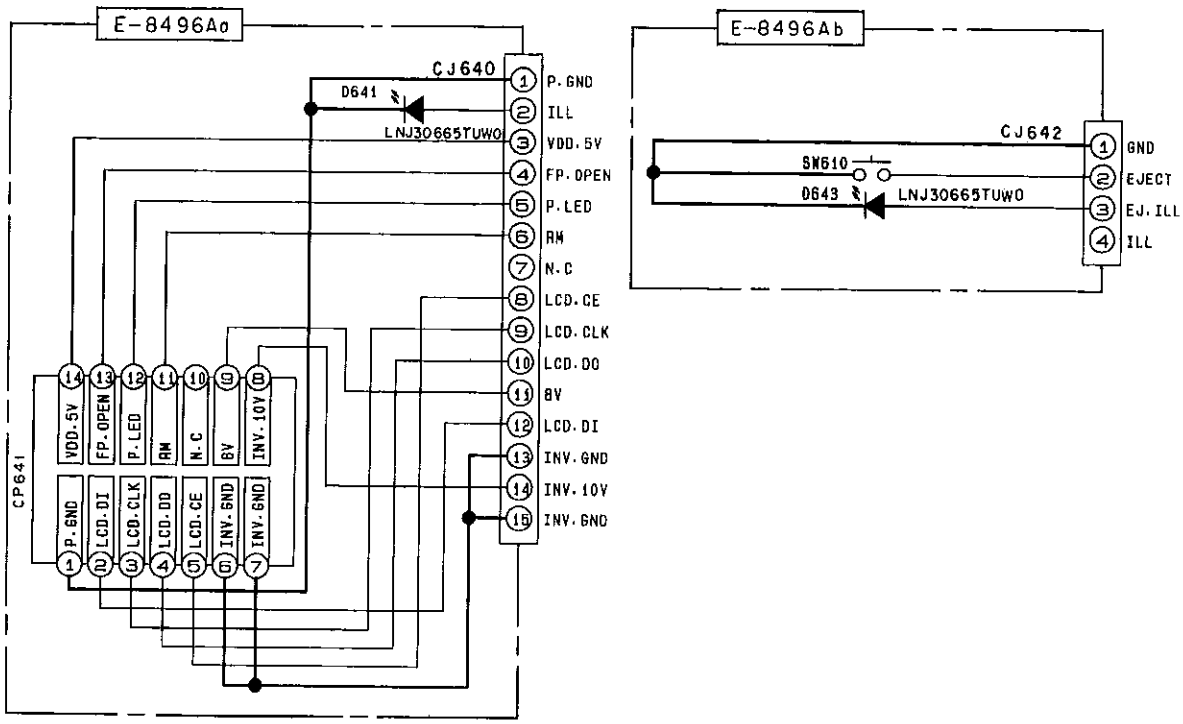
<BOTTOM VIEW>

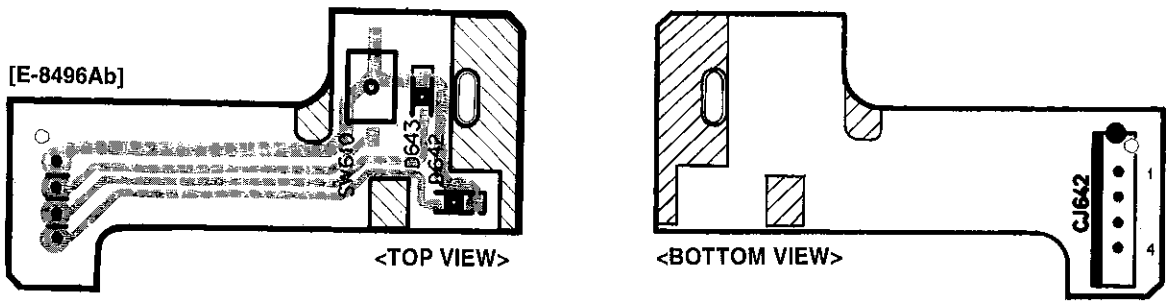


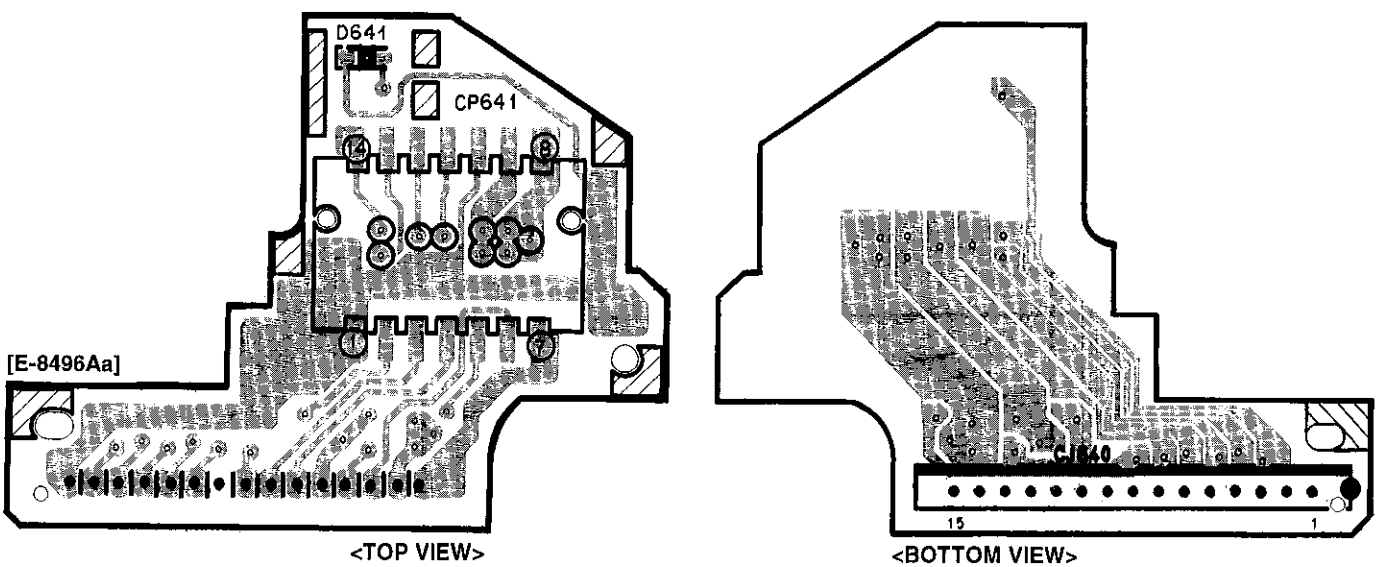
SCHEMATIC DIAGRAM (Display Block) MODELS CQ-FX88/77LEN



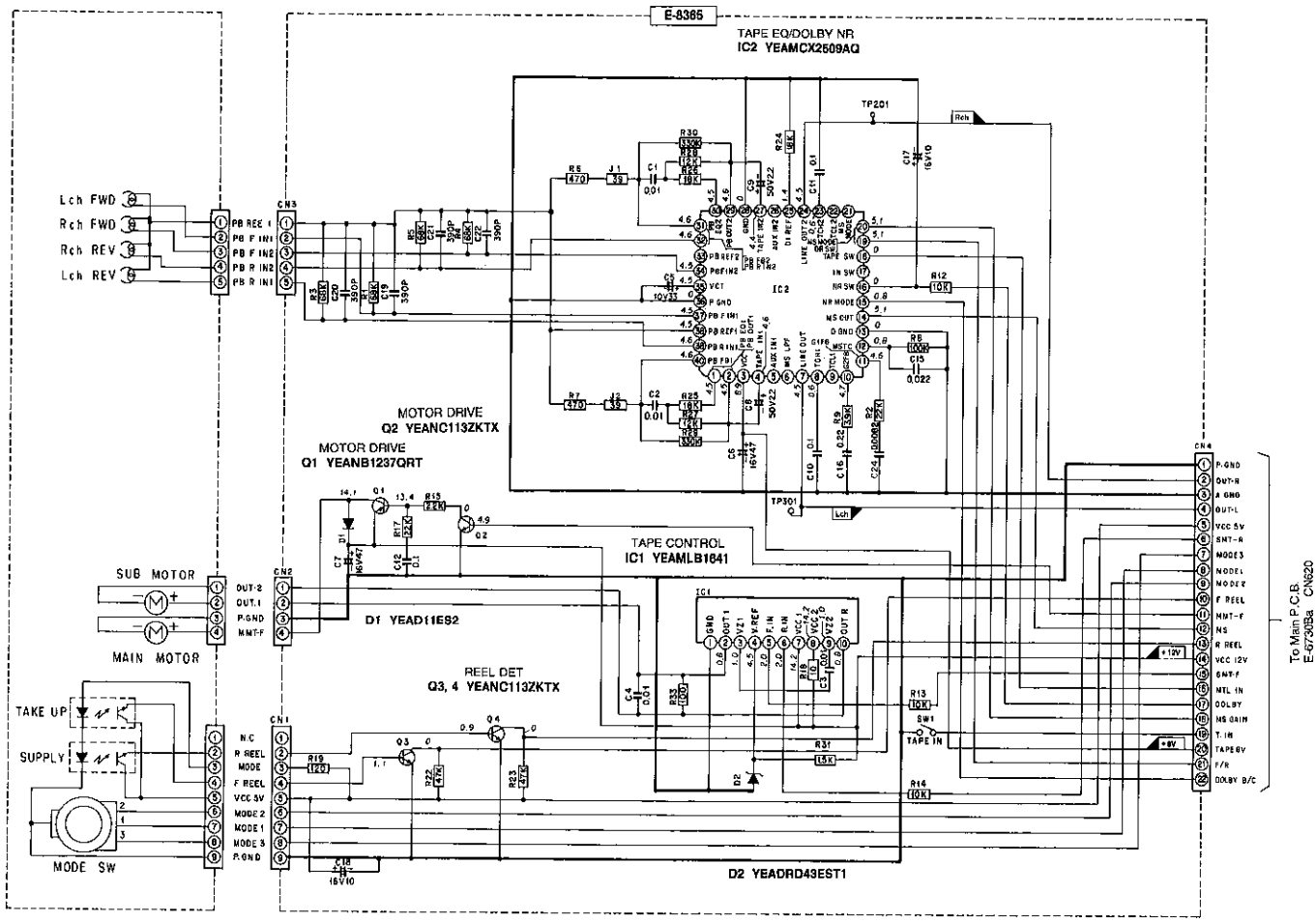
SCHEMATIC / WIRING DIAGRAM (Sub. Block) MODELS CQ-FX88/77LEN

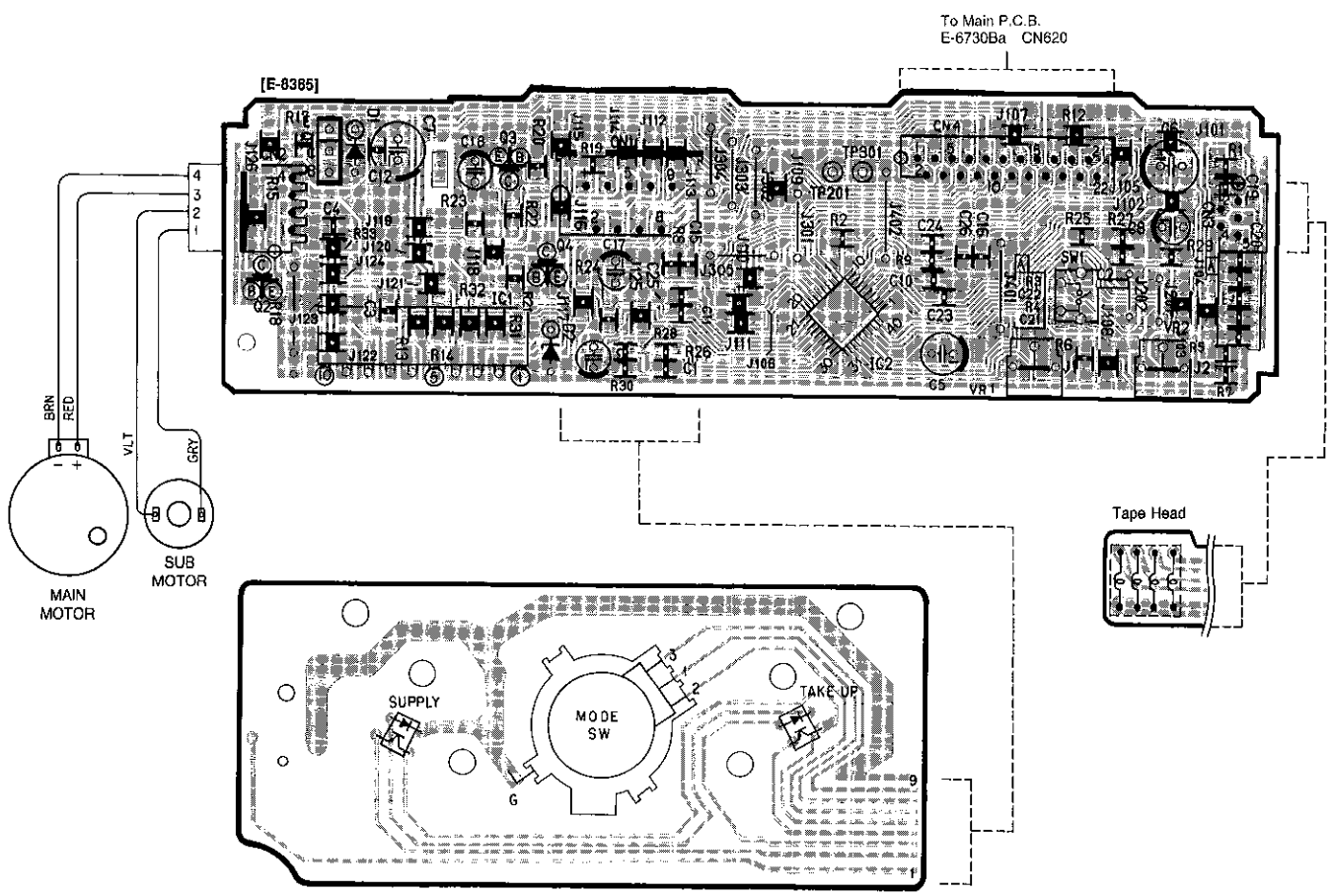




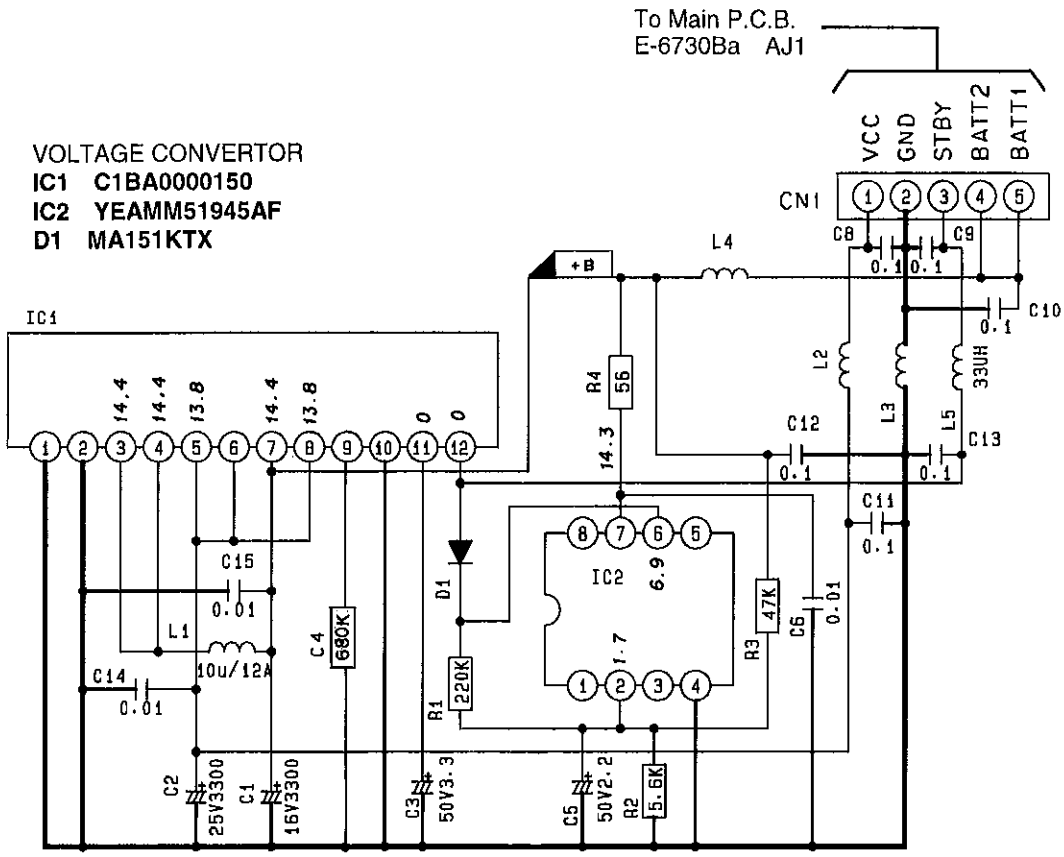


SCHEMATIC / WIRING DIAGRAM (Tape Block) MODELS CQ-FX88/77LEN

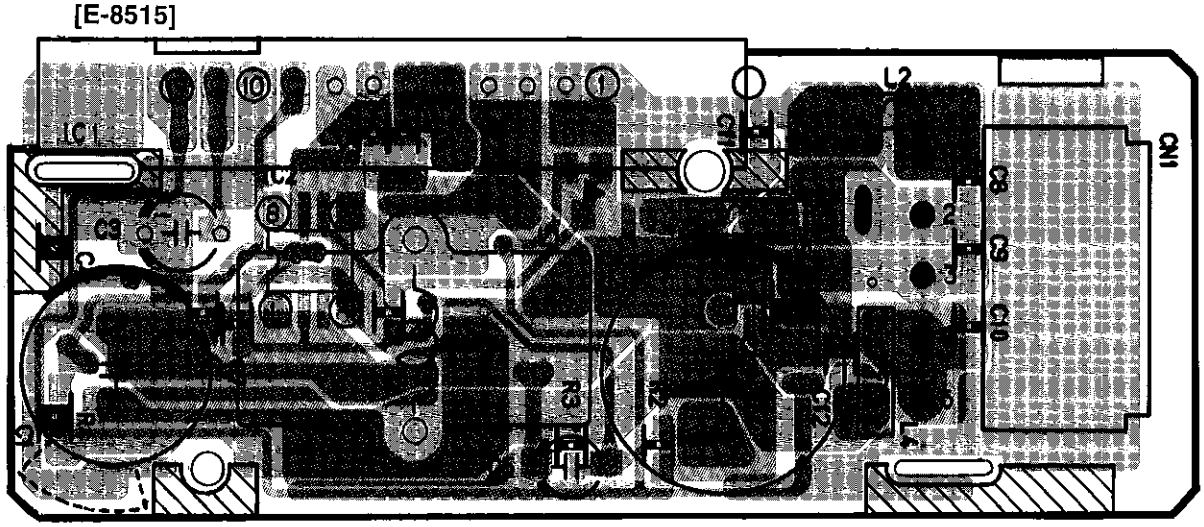




SCHEMATIC / WIRING DIAGRAM (DC-DC Block) MODEL CQ-FX88LEN



[E-8515]



ALIGNMENT INSTRUCTIONS

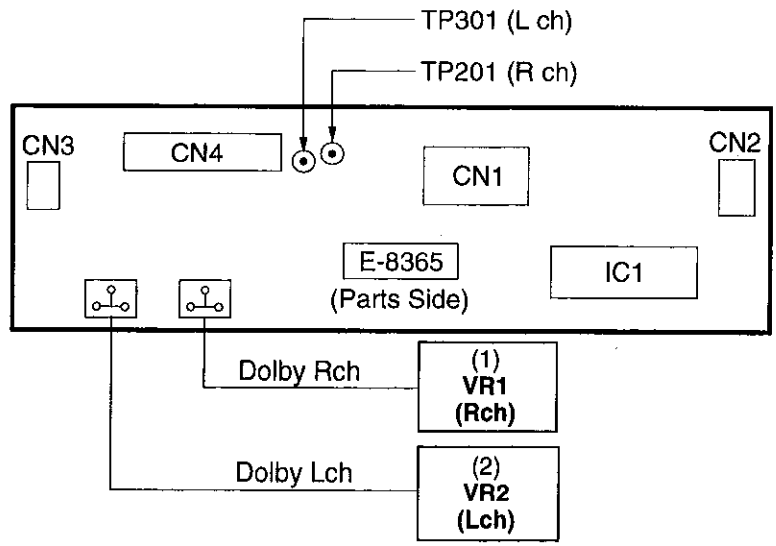
- Power Supply Voltage : DC14.4V
- Output Impedance : 4Ω
- Output Power : 0.5W
- Balance, Fader Control : Center
- Tone Control (Bass/Tre) : Center

Note: Do not align the AM and FM package blocks. When the package block is necessary, it will be supplied already aligned at the factory.

1. DOLBY NR ALIGNMENT

Step	Alignment Item	Test Tape	VTVM Connection	Adjust	Remarks
①	DOLBY NR Rch	RFKZ0038	TP201-GND	VR1	● Adjust for 388mV ±20mV
②	DOLBY NR Lch	RFKZ0038	TP301-GND	VR2	● Adjust for 388mV ±20mV

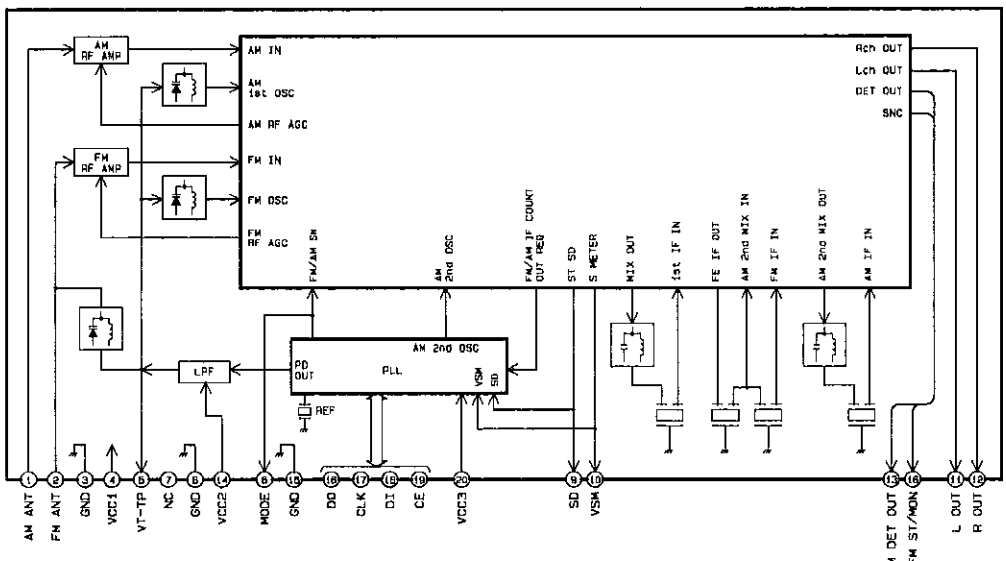
ALIGNMENT POINTS



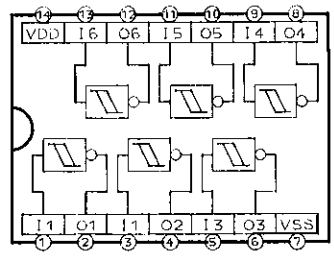
PACKAGE AND IC BLOCK DIAGRAM

<Main Block>

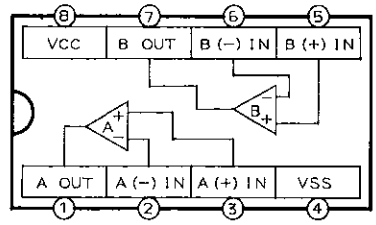
● PA51 C5EA00000069



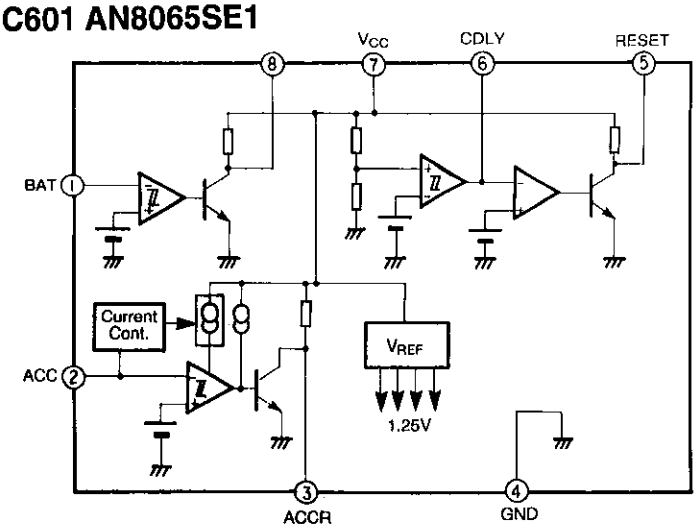
● IC650 YEAMC14584BE



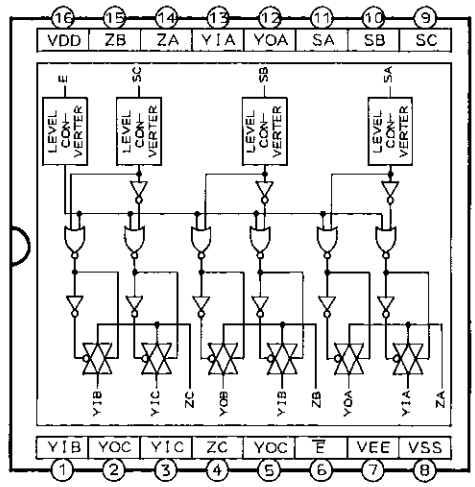
● IC220,261 YEAMM5218AFE



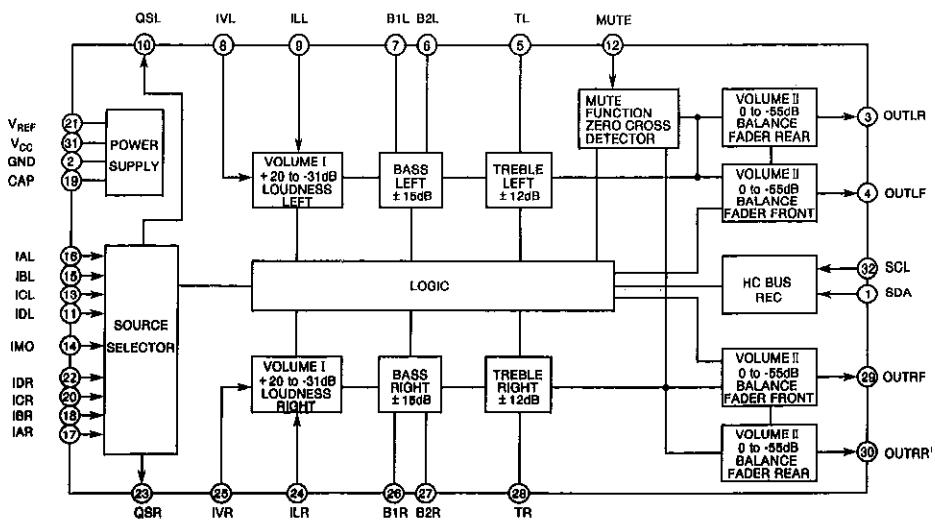
● IC601 AN8065SE1



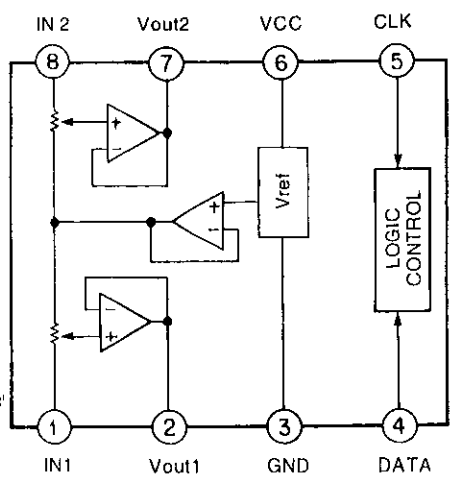
● IC204 YEAMPD4053E2



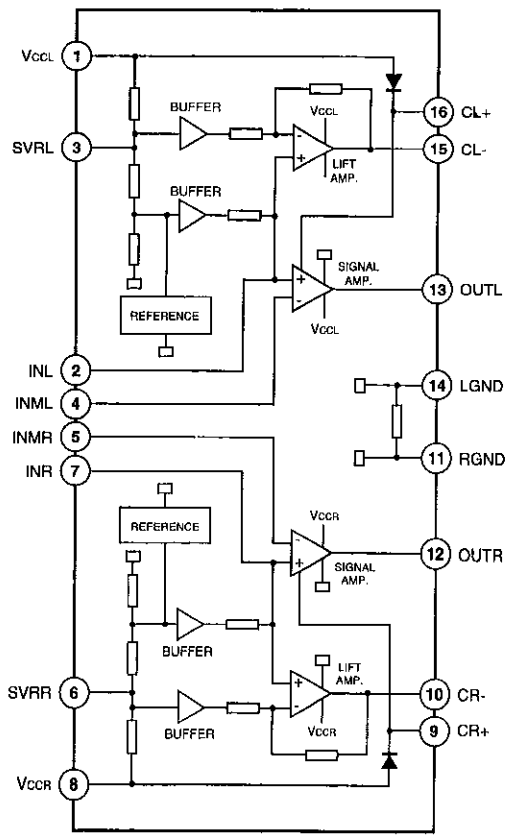
● IC201 YEAMEA6320TT



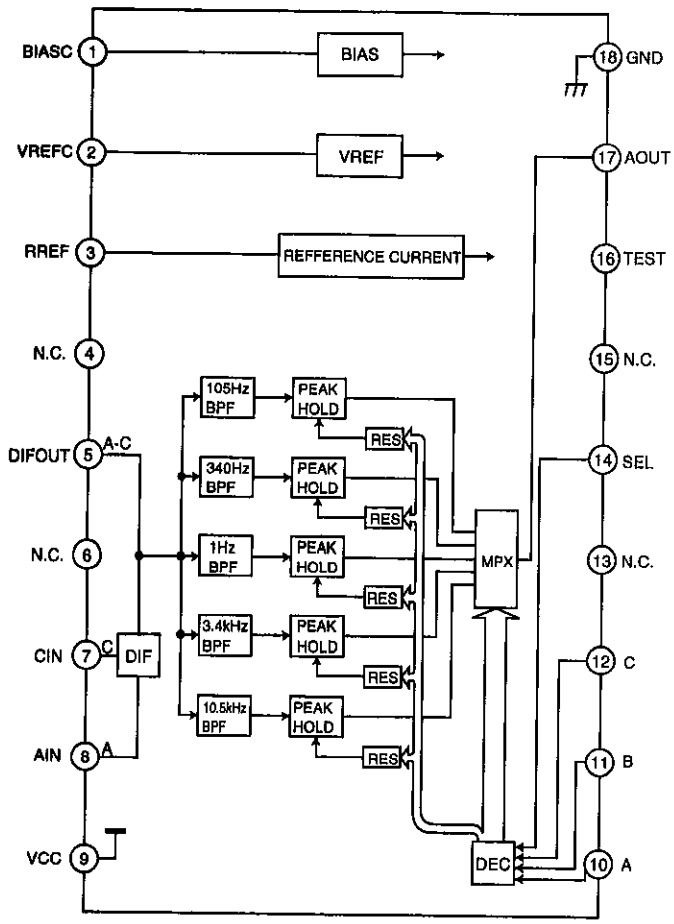
● IC262 YEAMM62429FP



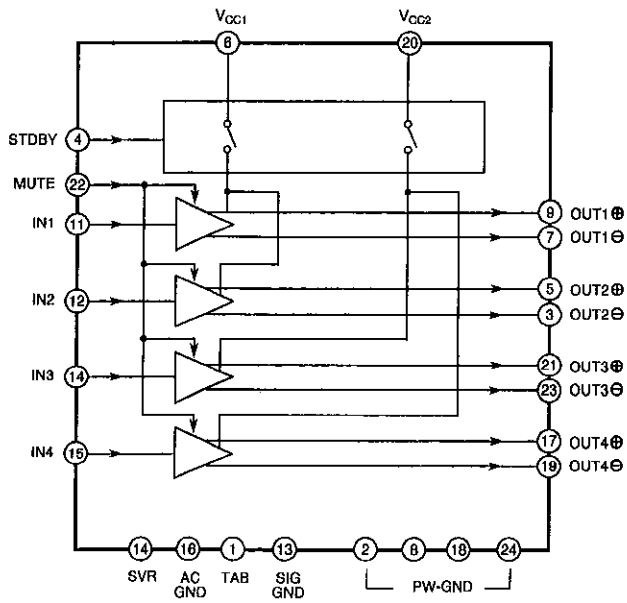
● IC203,205,206 YEAMDA8574TT



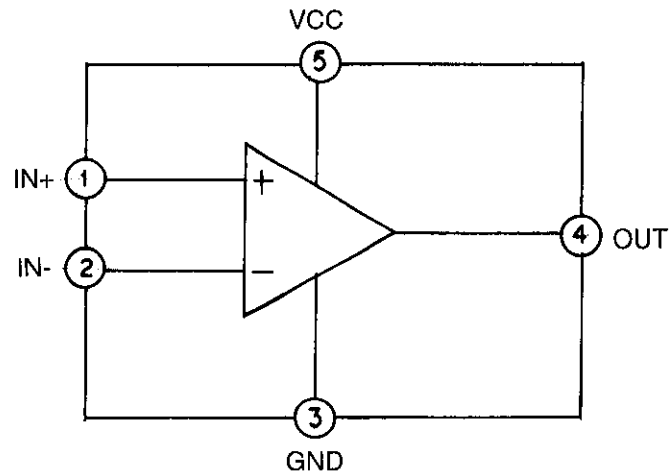
● IC801 YEAMBA3835FE



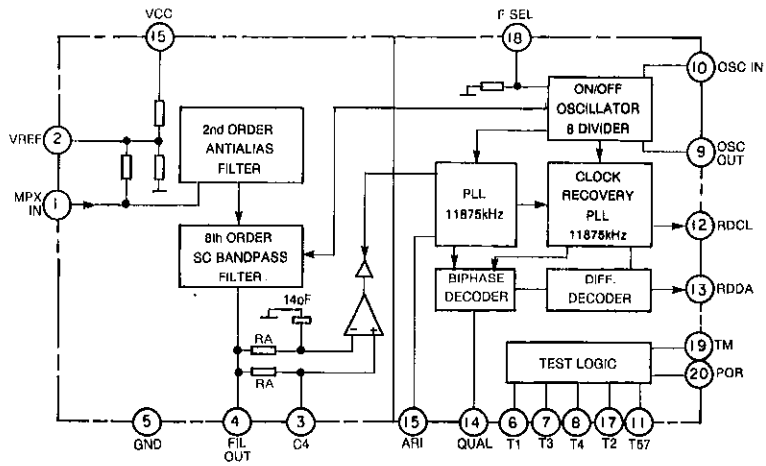
● IC241 YEAMTDA7384



● IC301 C1BA00000192



● IC900 YEAMDA7331D



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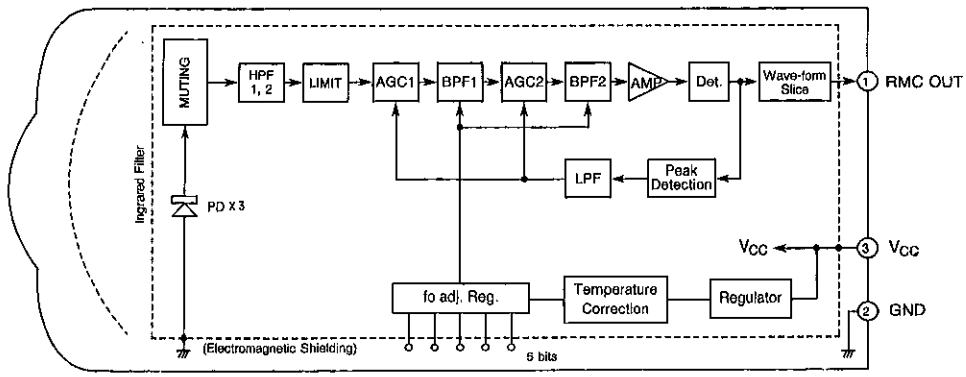
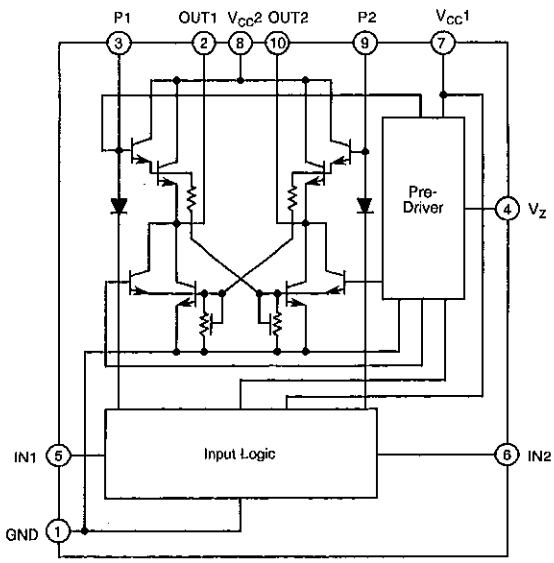
● IC905 YEAMSBX8035F

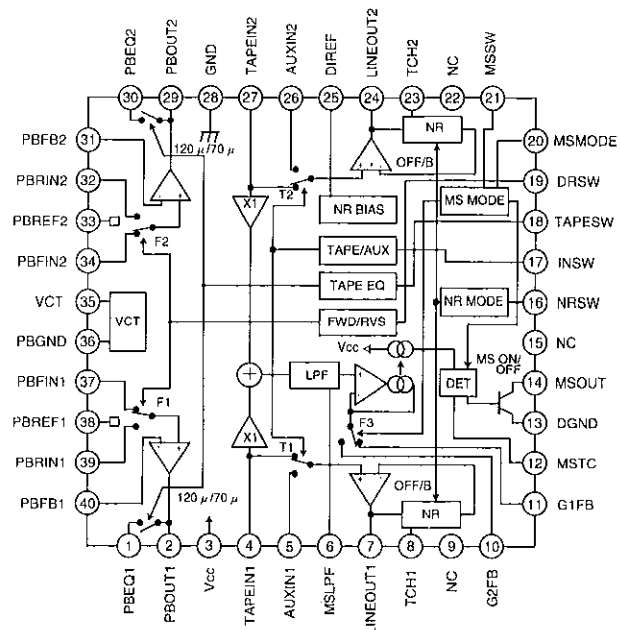


<Tape Block>

● IC1 YEAMLB1641



● IC2 YEAMCX2510AQ



TERMINALS DESCRIPTION

< Main Block >

■ IC600 : C2BBGF000047

Pin No.	Port	Description	I/O	Vol.(V)
1	CDC SENS	Not used	—	—
2	ST	FM Stereo signal	I	5.1
3	/EJECT	EJECT switch	I	5.3
4	AVSS	(Connecting to ground)	—	0
5	SPACE	Specialize effect adjust	O	4.1
6	CH 1/2	Not used	—	—
7	AVREF	Reference voltage (Connecting to VDD)	—	5.3
8	MODE1	Tape mode SW	I	5.1
9	NC	(No connection)	—	—
10	MODE3	Tape mode SW	I	5.1
11	CD.C DATA	CD.C data	I	0
12	NC	(No connection)	—	—
13	CD.C CLK	CD.C clock	I	0
14	REM OUT	Remote control data	O	5.3
15	BZ OUT	Buzzer output	O	0
16	PLL DATA/M1	Serial data (from PLL)	I	5.2
17	PLLA DATA/M0	Serial data (to PLL)	O	0
18	PLL CLK	Serial data clock (to PLL)	O	5.3
19	PLL CE	Chip enable (to PLL)	O	0
20	MMT-F	Main motor control	O	0
21	SMT-F	Sub motor control	O	5.3
22	DOLBY	Dolby control	O	5.3
23	F/R	Tape FF/REW detection	I	5.3
24	MS GAIN	MS gain control	O	5.3
25	MTL	Metal tape select	O	0
26	SMT-R	Sub motor control	O	5.3
27	R.REEL	Tape REW detection	I	1.5
28	F.REEL	Tape FF detection	I	1.5
29	MS IN	TPS input	I	0
30	T-IN	Tape in detection	I	0
31	CONT A	Spectrum analyzer output select A **(Note 2)**	O	5.3
32	CONT B	Spectrum analyzer output select B **(Note 2)**	O	5.3
33	VSS	(Connecting to ground)	—	0
34	CONT C	Spectrum analyzer output select C **(Note 2)**	O	5.3
35	ILL ON/OFF	Button illumination ON/OFF	O	5.3
36	12C CLK	Electronic Volume clock	O	5.2
37	12C DATA	Electronic Volume clock	I/O	5.2
38	/LED	Security LED	O	4.1
39	/EJ. ILL	EJECT Button Illumination control	O	5.6
40	SEL_CNT	Spectrum analyzer IC control **(Note 2)**	O	0
41	LCD DI (MO)	Serial data (to LCD Driver)	O	0
42	LCD DI (MI)	Serial data (from LCD Driver)	I	4.5
43	LCD CLK	LCD Driver clock	O	0
44	LCD CE	LCD Driver Chip Enable	O	0
45	SUBW CLK	Volume (Sub Woofer/Center SD) control clock **(Note 2)**	O	0
46	SUBW DATA	Volume (Sub Woofer/Center SD) control data **(Note 2)**	O	0
47	DC/DC ON/OFF	DC/DC Converter control **(Note 2)**	O	0
48	PWR LED	Power LED control	O	0
49	3DSB	3DSB/V ST control	O	0
50	V.ST	Monaural mode 3DSB	O	0
51	INV CONT2	Inverter Voltage select output 2	O	0
52	INV CONT1	Inverter Voltage select output 1	O	0
53	B/C	Dolby mode control	O	0
54	/AF MUTE	Audio mute	O	5.3
55	LPF ON	3DSB rear LPF control	O	5.3
56	ILL CNT	Illumination control	O	5.3
57	PWR CNT (STBY)	Power control	O	5.3
58	ACC	ACC detection	I	5.3
59	RDS.DATA	RDS data	I	2.9
60	/RESET	Reset	I	5.3
61	REM OUT	Remote control data	I	4.2
62	BATT	BATT detection	I	5.3
63	RDS.CLK	RDS clock	I	2.6
64	CD.C STB	CD.C strobe	I	0
65	MUTE	Mute control	O	5.3
66	MODE2	Tape mode SW	I	5.1
67	VSS	(Connecting to ground)	—	0
68	VDD	Connecting to +5V	—	5.3
69	X2	Crystal	O	3.0
70	X1	Crystal	I	2.6
71	VSS	(Connecting to ground)	—	0
72	—	Crystal	—	2.8
73	—	Crystal	—	2.4
74	AVDD	A/D converter +5V	—	5.3
75	AVREF	A/D converter reference voltage	—	5.3
76	SD	FM/AM SD	I	0
77	INT_A	Initialize A **(Note 3)**	I	(#1)
78	INT_B	Initialize B	I	0
79	A_IN	Spectrum analizer /Level meter signal detection	I	0
80	PANEL	Panel IN/OUT detection	I	5.4

Note 1 : Voltage measurements are with respect to ground, with a voltmeter (Internal resistance : 10M ohms).
Note 2 : Only for CQ-FX88LEN.
Note 3 : (#1)
0V : <CQ-FX88LEN>
5.3V : <CQ-FX77LEN>

< Display Block >

■ IC901 : YEAMLC75884W

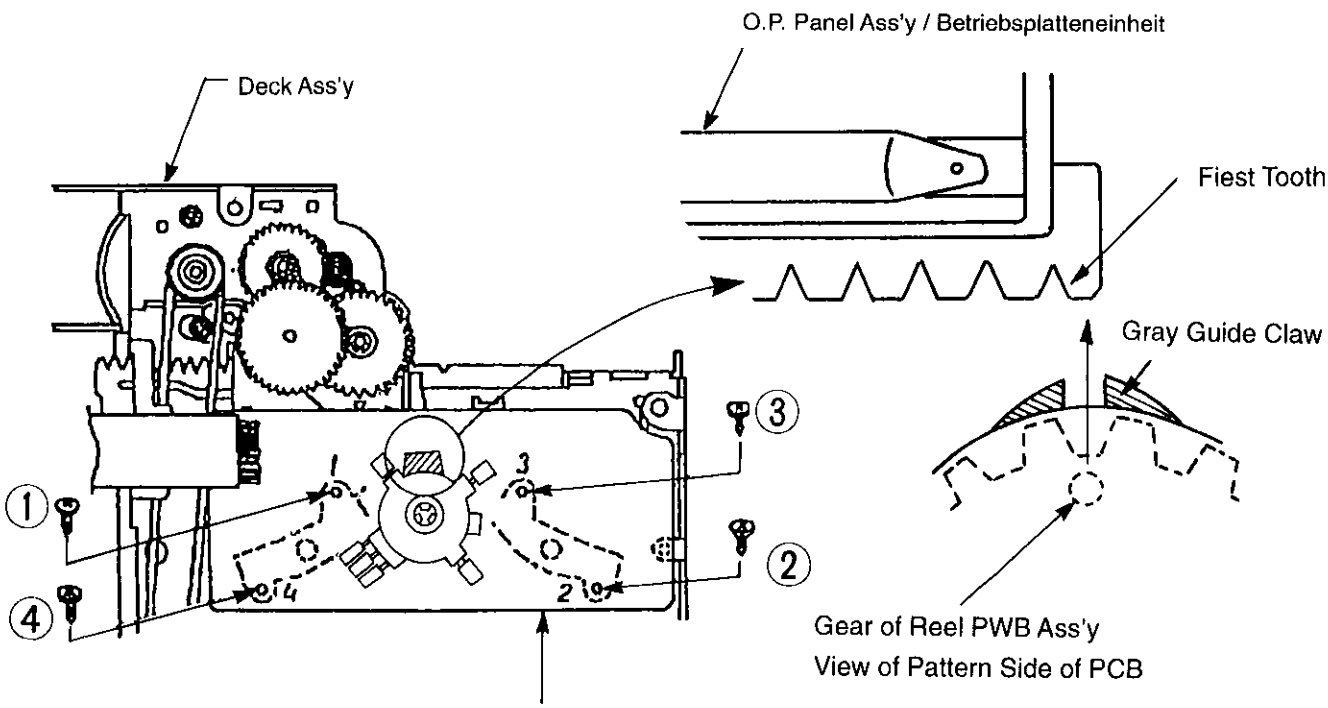
Pin No.	Port	Description	I/O	Vol.(V)
1~51	S3~53	LCD segment data	O	2.5
52~55	COM1~4	LCD common	O	2.5
56,57	S54,55	LCD segment data	O	2.5
58~61	KS3~6	Key strobe	O	0.9
62~66	KI1~5	Key data	I	0
67	VDD	+5V power supply	—	5.1
68	VLCD	+5V power supply	—	5.1
69	VLCD1	LCD angle	—	3.3
70	VLCD2	LCD angle	—	1.7
71	VSS	Ground	—	0
72	TEST	(Connecting to ground)	—	0
73	OSC	Oscillator terminal	—	3.9
74	/RESET	(Connecting to VCC)	—	5.1
75	DO	Key data output	O	4.1
76	CE	LCD driver chip enable	I	0

RE-ASSEMBLY PROCEDURE for REEL PWB ASS'Y

- When you re-assembly the REEL PWB Ass'y please refer to the following procedure.

1. Set the gear of Reel PWB Ass'y (Ref. No.61) into the first tooth of O.P. Plate Ass'y (Ref.No.20) as shown below.

2. Tighte the (1-4) screws of reel PWB Ass'y as shpwn in the figure.



Reel PWB Ass'y
(Ref. No.61, Part No. YESAP151)

1 REPLACEMENT PARTS LIST <CQ-FX88LEN>

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

1.1. IC's and Transistors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC202	AN7395SE1	IC	
IC203	YEAMDA8574TT	IC	
IC204	YEAMPD4053E2	IC	
IC205	YEAMDA8574TT	IC	
IC206	YEAMDA8574TT	IC	
IC220	YEAMM5218AFE	IC	
IC241	YEAMTDA7384	IC	
IC261	YEAMM5218AFE	IC	
IC262	YEAMM62429FP	IC	
IC301	C1BA00000192	IC	
IC600	C2CBJG000003	IC	
IC601	AN8065SE1	IC	
IC650	YEAMC14584BE	IC	
IC704	AN7805F	IC	
IC705	AN8009M-E1	IC	
IC801	YEAMBA3835FE	IC	
IC900	YEAMDA7331D	IC	
PA51	C5EA00000069	IC	
Q213	YEANC1623	Transistor	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q270	YEANC323TKT	Transistor	
Q301	YEANC323TKT	Transistor	
Q302	YEANB1243QRT	Transistor	
Q303	YEANC114YKT	Transistor	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q663	YEANA114EKTX	Transistor	
Q701	YEANC4480AN	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANC114YKT	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKTX	Transistor	
Q707	YEANA114EKTX	Transistor	
Q708	2SD1994ATA	Transistor	
Q710	YEANC144EUTX	Transistor	
Q711	YEANC144EUTX	Transistor	
Q720	YEANHQ1F3PT1	Transistor	
Q721	YEANC144WKT	Transistor	
Q901	YEANC1623	Transistor	
Q902	YEANA114EKTX	Transistor	
Q903	YEANC144EKT	Transistor	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75884W	IC	
IC905	YEAMSBX8035F	IC	
Q902	YEANSSTA06T	Transistor	
Q903	YEANSSTA06T	Transistor	

DC-DC CONV. BLOCK [E8515]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1	C1BA00000150	IC	
IC2	YEAMM51945AF	IC	

1.2. Diodes

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
D201	MA151ATX	Diode	
D601	MA723TA	Diode	
D602	LN25RP	LED	
D603	MA151ATX	Diode	
D702	MA165	Diode	
D703	YEADRD56M3T1	Diode	
D704	MA723TA	Diode	
D706	YEADDAM3MA47	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	MA153TX	Diode	
D710	YEADRD27M2T1	Diode	
D711	MA4051LMTA	Diode	
D729	YEADRD10M1T1	Diode	
D901	YEADRD51MBT1	Diode	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
D900	LN1271RAL	LED	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8047MTX	Diode	

DC-DC CONV. [E8515]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	MA151K	Diode	

SUB BLOCK [E8496A]

Ref. No.	Part No.	Part Name & Description	Remarks
D641	LNJ306G5TUWQ	LED	
D643	LNJ306G5TUWQ	LED	

1.3. Capasitors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
C57	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C61	ECA1CSA470I	Electrolytic, 47µF 16WV	
C62	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C63	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C66	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C67	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C72	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C203	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C204	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C205	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C206	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C207	YECUS1C224KX	Ceramic, 0.22µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C208	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C210	ECA1CSA470I	Electrolytic, 47µF 16WV	
C211	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C212	ECA0JSA220I	Electrolytic, 22µF 6.3WV	
C213	ECA1HSA010I	Electrolytic, 1µF 50WV	
C214	YECUS1C563KX	Ceramic, 0.056µF 16WV	
C215	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C216	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C217	ECA1CSA100I	Electrolytic, 10µF 16WV	
C218	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C219	YECUS1H392KX	Ceramic, 0.0039µF 50WV	
C220	ECA1HSA4R7I	Electrolytic, 4.7µF 50WV	
C224	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C227	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C228	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C229	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C230	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C231	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C232	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C241	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C244	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C248	ECA1EDT222L	Electrolytic, 2200µF 25WV	
C250	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C251	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C252	ECEA1CKS101	Electrolytic, 100µF 16WV	
C253	ECA1CSA470I	Electrolytic, 47µF 16WV	
C254	ECEA1AKS221	Electrolytic, 220µF 10WV	
C255	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C256	ECEA1CKS101	Electrolytic, 100µF 16WV	
C260	ECA1CSA100I	Electrolytic, 10µF 16WV	
C261	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C262	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C263	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C264	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C266	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C270	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C273	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C274	YECUV2A152KX	Ceramic, 0.0015µF 100WV	
C275	ECEA1CKS101	Electrolytic, 100µF 16WV	
C276	ECA1CSA470I	Electrolytic, 47µF 16WV	
C277	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C278	ECA1CSA470I	Electrolytic, 47µF 16WV	
C303	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C304	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C305	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C306	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C307	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C309	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C310	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C311	ECEA1AKS221	Electrolytic, 220µF 10WV	
C313	ECA1CSA100I	Electrolytic, 10µF 16WV	
C314	YECUS1E393KX	Ceramic, 0.039µF 25WV	
C315	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C316	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C317	ECA1CSA470I	Electrolytic, 47µF 16WV	
C318	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C319	YECUS1H392KX	Ceramic, 0.0039µF 50WV	
C320	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C321	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C322	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C324	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C327	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C328	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C329	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C330	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C331	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C341	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C344	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C345	YECUV2A122KX	Ceramic, 0.0012µF 100WV	
C346	YECUV1C105KX	Ceramic, 1µF 16WV	
C347	ECEA1AKS101	Electrolytic, 100µF 10WV	
C348	ECA1HSA2R2I	Electrolytic, 2.2µF 50WV	
C350	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C351	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C352	ECEA1CKS101	Electrolytic, 100µF 16WV	
C353	ECEA1AKS221	Electrolytic, 220µF 10WV	
C354	ECA1CSA470I	Electrolytic, 47µF 16WV	
C355	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C357	ECEA1CKS101	Electrolytic, 100µF 16WV	
C366	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C370	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C371	ECSH1CY105CR	Tantalum, 1µF 16WV	
C372	ECEA1AKS221	Electrolytic, 220µF 10WV	
C373	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C374	ECEA1CKS101	Electrolytic, 100µF 16WV	
C375	YECUS1H393KX	Ceramic, 0.039µF 50WV	
C376	ECEA1CN101S	Electrolytic, 100µF 16WV	
C377	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C378	ECSH1CY105CR	Tantalum, 1µF 16WV	
C411	ECEA1AKS221	Electrolytic, 220µF 10WV	
C412	ECEA1AKS221	Electrolytic, 220µF 10WV	
C413	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1H220JM	Ceramic, 22PF 50WV	
C602	YECUS1H220JM	Ceramic, 22PF 50WV	
C603	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C605	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C607	EECS5R5T473	Electrolytic, 0.047FD 5.5WV	
C608	YECUV1H104KX	Ceramic, 0.1µF 50WV	
C609	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C611	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C612	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C615	YECUV1H151JM	Ceramic, 150PF 50WV	
C616	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C617	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C620	YECUS1H150JM	Ceramic, 15PF 50WV	
C621	YECUS1H390JM	Ceramic, 39PF 50WV	
C650	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C660	ECA1HSA010I	Electrolytic, 1µF 50WV	
C662	ECA1CSA100I	Electrolytic, 10µF 16WV	
C685	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C686	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C687	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C690	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C701	ECEA1CKS101	Electrolytic, 100µF 16WV	
C702	ECA1HSA4R7I	Electrolytic, 4.7µF 50WV	
C703	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C704	ECEA1CKS101	Electrolytic, 100µF 16WV	
C705	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C706	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C707	ECEA1AKS221	Electrolytic, 220µF 10WV	
C708	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C709	ECEA1AKS101	Electrolytic, 100µF 10WV	
C710	ECA1CDT102BQ	Electrolytic, 1000µF 16WV	
C716	ECA1CSA470I	Electrolytic, 47µF 16WV	
C718	YECUV1E334ZF	Ceramic, 0.33µF 25WV	
C719	YECUV1E334ZF	Ceramic, 0.33µF 25WV	
C720	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C721	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C722	ECEA1AKS221	Electrolytic, 220µF 10WV	
C723	ECEA1AKS221	Electrolytic, 220µF 10WV	
C724	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C725	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C727	ECEA1CKS101	Electrolytic, 100µF 16WV	
C728	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C741	ECEA1AKS101	Electrolytic, 100µF 10WV	
C805	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C806	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C807	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C808	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C809	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C901	YECUS1H270JM	Ceramic, 27PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C902	YECUS1H470JM	Ceramic, 47PF 50WV	
C903	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C904	ECA1CSA100I	Electrolytic, 10µF 16WV	
C905	YECUS1H271JM	Ceramic, 270PF 50WV	
C906	ECA1CSA470I	Electrolytic, 47µF 16WV	
C907	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C909	YECUS1H471JM	Ceramic, 470PF 50WV	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
C905	YECUM2A683JN	Plastic Film, 0.068µF 100WV	
C906	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C907	ECEV1CA220SR	Electrolytic, 22µF 16WV	
C910	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C923	YECUS1H681JM	Ceramic, 680PF 50WV	

DC-DC CONV. BLOCK [E8515]

Ref. No.	Part No.	Part Name & Description	Remarks
C1	ECA1CM332	Electrolytic, 3300µF 16WV	
C2	ECA1EM332B	Electrolytic, 3300µF 25WV	
C3	ECA1HM3R3B	Electrolytic, 3.3µF 50WV	
C5	ECEA1HKS2R2	Electrolytic, 2.2µF 50WV	
C6	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C8	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C9	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C10	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C11	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C12	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C13	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C14	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C15	YECUS1H103ZF	Ceramic, 0.01µF 50WV	

1.4. Resistors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
J402	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J403	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J405	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J406	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J408	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J410	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J411	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J413	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J414	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J415	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J416	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J417	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J418	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J419	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J420	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J421	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J422	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J423	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J451	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J452	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J453	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R51	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R54	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R55	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R58	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R62	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R63	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R66	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R68	ERJ6GEYJ103	Chip, 10kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R201	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R202	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R204	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R205	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R206	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R207	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R209	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R210	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R212	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R213	ERJ6GEYJ221	Chip, 220Ω 1/10W	
R215	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R216	ERJ6GEYJ105	Chip, 1MΩ 1/10W	
R219	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R220	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R221	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R222	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R226	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R230	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R235	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R240	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R241	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R242	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R243	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R250	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R251	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R252	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R253	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R254	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R257	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R258	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R259	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R260	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R261	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R262	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R263	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R264	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R265	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R267	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R268	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R270	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R271	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R272	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R273	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R274	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R275	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R301	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R302	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R304	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R305	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R306	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R307	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R309	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R310	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R319	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R320	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R321	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R322	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R330	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R335	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R340	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R341	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R342	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R343	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R344	ERJ8GEYJ223V	Chip, 22kΩ 1/8W	
R350	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R351	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R352	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R353	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R354	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R360	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R370	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R371	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R372	ERJ6GEYJ390	Chip, 39Ω 1/10W	
R373	ERG1SJ101	Metal Oxid, 100Ω 1W	
R374	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R375	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R376	ERDS1FJ681	Carbon, 680Ω 1/2W	
R377	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R405	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R408	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R600	ERJ6GEYJ330	Chip, 33Ω 1/10W	
R601	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R603	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R605	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R606	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R608	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R609	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R615	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R617	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R618	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R619	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R629	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R630	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R631	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R632	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R633	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R634	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R635	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R636	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R637	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R638	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R639	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R641	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R642	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R643	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R644	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R645	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R646	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R647	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R648	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R649	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R657	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R660	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R661	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R662	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R663	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R665	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R671	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R673	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R675	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R677	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R680	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R681	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R685	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R686	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R687	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R688	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R690	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R692	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R695	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R696	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R697	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R698	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R701	ERDS2FJ270	Carbon, 27Ω 1/4W	
R702	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R705	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R706	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R707	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R708	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ681	Carbon, 680Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R714	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R715	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R717	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R720	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R721	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R724	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R725	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R726	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R727	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R728	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R729	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R731	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R732	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R755	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R803	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R900	ERJ6GEYJ225V	Chip, 2.2MΩ 1/10W	
R902	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R903	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R904	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R905	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R906	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R930	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R931	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R961	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R962	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R963	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R964	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R965	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R970	ERJ6GEY0R00V	Chip, 0Ω 1/10W	

DC-DC CONV. BLOCK [E8515]

Ref. No.	Part No.	Part Name & Description	Remarks
C4	ERJ8GEYJ684V	Chip, 680kΩ 1/8W	
R1	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R2	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R3	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R4	ERJ8GEYJ560V	Chip, 56Ω 1/8W	

1.5. Connectors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ620	YEAES22B100B	Connector, 22P flexible	
CN201	YEAE012504	Connector, RCA REAR-OUT	
CN251	YEAE012709	Connector, 2P RCA	
CN252	YEAE012571	Connector, 2P RCA	

Ref. No.	Part No.	Part Name & Description	Remarks
CN253	YEAE012785	Connector, 2P RCA S.W.-OUT	
CN301	YEAE012505	Connector, RCA FRONT-OUT	
CN370	K1PQ02Z00002	Connector, 2P	
CN601	YEAE0115MX	Connector, 15P	
CN602	K1HA149A0001	Connector, 7P	
CN603	YEAE0104MX	Connector, 4P	
CN620	YEAE012659	Connector, 22P	
CN680	YEAE012307	Connector, 8P DIN	
CN701	YEAE012748	Connector, 16P	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN901	YEAE012760	Connector, 14P	

DC-DC CONV. BLOCK [E8515]

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	YEAEPSVH05A	Connector, 5P	

SUB BLOCK [E8496A]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ640	YEAE0115MPA	Connector, 15P	
CJ642	YEAE0104MPA	Connector, 4P	
CP641	YEAE012761	Connector, 14P	

1.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW602	YEAS08042	Switch	
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	K0H1BA000285	Switch	
SW904	K0H1BA000285	Switch	
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	K0H1BA000285	Switch	
SW909	K0H1BA000285	Switch	
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	K0H1BA000285	Switch	
SW913	K0H1BA000285	Switch	
SW914	K0H1BA000285	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	K0H1BA000285	Switch	
SW918	K0H1BA000285	Switch	
SW610	YEAS09267	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL600	H0D125500002	Crystal OSC	
XL601	YEXLMC60327	Crystal OSC	
XL900	YEXL49U0433T	Crystal OSC	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT03A330KT	Coil	
L600	YELT02C470KT	Coil	
L602	YELT02C101KT	Coil	
L702	YETQ026T164	Coil	
L703	ELEAT330KA02	Coil	
L900	YELT02C330KT	Coil	
L901	YELT02C330KT	Coil	
L901	YELT216825TG	Coil	
L902	YELTD75F101T	Coil	
L1	YETQ022T161	Coil	
L2	YELTB2R2RT	Coil	
L3	YELTB2R2RT	Coil	
L4	YELTB2R2RT	Coil	
L5	YELT03N330JT	Coil	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	L5ACCLC00003	LCD Display	

LAMPS

Ref. No.	Part No.	Part Name & Description	Remarks
Z50	YEAL02007	Neon Lamp	
CFL931	A2CA00000003	Display Tube	

THERMISTOR

Ref. No.	Part No.	Part Name & Description	Remarks
PT701	YERT7AR4R7MT	Thermistor	

1.7. Accessories

PRINTING

Ref. No.	Part No.	Part Name & Description	Remarks
	YGFM282955	Operating Instructions	

INSTALLATION PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
	YEAJ02815	Power Cord	
	YEAA33144	Antenna Accessory	
	CR2025/1F	Battery	
	YEP9BS1111	Screws	
	YEFA131302	Detachable Unit Cover	
	YEFX0214198	Mounting Collar	
	YEFX9992012	Remote Controller	
	YEP9FZ2874	Screws	
	EAK8H01A	Speaker	
	YEAJ04866	Cord w/Plug	

1.8. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1 ⚠	YEAF02015	Fuse, 15A	
AJ1	YEAJ02773	Power Cord	
AJ252	YEAJ8VW3503	Tube	
ANT51	YEAA10090	Antenna Receptacle	
AT1-3	K4ZZ01000048	Terminal	
HP1	YEAT03324	Terminal	
1	YEFA05594B	Bottom Cover	(1-B)
2	YEFA031354D	Upper Cover	(4-C)
3	YEFA08493AK	Rear Plate	(3-C)
4	YEFA131413	Cover, Detachable	(2-A)
5	YEFA09505	Side Plate	(1-C)
6	YEFC025659A	Escutcheon Ass'y, Unit	(3-A)
7	YEFC026113	Escutcheon Ass'y, Detachable	(1-A)
8	YEFC05570	Trim Plate	(1-A)
9	YEFE135147	Button, EJECT	(3-A)
10	YEFE135435	Button, VOL	(1-A)
11	YEFE135436	Button, SEL	(1-A)
12	YEFE135713	Button, BAND/SOURSE	(1-A)
13	YEFE135439	Button, TUNE/TRACK	(1-A)
14	YEFE135534	Button, TA/AF	(1-A)
15	YEFE135536	Button, PRESET	(1-A)
16	YEFE135442	Button, OPEN	(1-A)
17	YEFF01922	Heat Sink	(3-A)
19	YEFK06835	Holder, LCD	(2-A)
20	YEFR04187	Lead Cap	(4-C)
21	YEFV011813	Insulator	(1-B)
22	YEFV021596	Optical Shade	(2-B)
24	YEFV03457	Magnetic Shield	(2-A)
25	YEFV011928	Insulator	(2-A)
26	YEFW04156	Shaft Collar	(2-B)
27	YEFW04157	Shaft Collar	(2-A)

Ref. No.	Part No.	Part Name & Description	Remarks
28	YEFX0214422	Bracket, CN701	(3-B)
29	YEFX0011903	Transparent Plate	(2-B)
30	YEFX0213945B	Bracket, IC241	(2-B)
31	YEFX0214625	Bracket, Inverter	(2-A)
32	YEFX0214197B	Bracket, Deck	(3-B)
33	YEFX0011904	Transparent Plate, L	(1-A)
35	YEFX0011905	Transparent Plate, R	(1-A)
36	YEFX0214168	Bracket, IC704	(2-B)
37	YEFX025137A	Color Screen	(2-B)
38	YEFX007380	Cord Clamper, CN251	(3-B)
39	YEFX007142	Cord Clamper	(3-C)
40	YEP9FX069	Hook Bracket Ass'y	(3-B)
41	YEFX0052396	Spring, Open	(1-A)
42	YEFX0052253	Spring	(2-A) (2-B)
43	YEFJ05041	Color Rivet	(3-C)
44	YEP9FX066A	Front Chassis Ass'y	(3-B)
45	YEFX007146	Cord Clamper	(3-C)
46	YEFX0011816	Transparent Plate	(3-A)
47	YEFA031565	DC-DC Converter Upper Cover	(4-A)
48	YEFA131338	DC-DC Converter Case	(4-A)
51	YEJS06092	Screw, 3mm * 10mm	
52	YEJS03020	Screw, 2mm * 4mm	
53	YEJT03009	Tapping Screw, 3mm * 8mm	
54	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
55	YEJT03156	Tapping Screw, 2.6mm * 4mm	
56	YEJT03163	Tapping Screw, 2mm * 6mm	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	
58	YEJS03022	Screw, 3mm * 3mm	
59	XYN3+F14FX	Screw, 3mm * 14mm	

2 REPLACEMENT PARTS LIST <CQ-FX77LEN>

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

2.1. IC's and Transistors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC202	AN7395SE1	IC	
IC204	YEAMPD4053E2	IC	
IC220	YEAMM5218AFE	IC	
IC241	YEAMTDA7384	IC	
IC600	C2CBJG000047	IC	
IC601	AN8065SE1	IC	
IC650	YEAMC14584BE	IC	
IC704	AN7805F	IC	
IC705	AN8009M-E1	IC	
IC802	YEAMM5218AFE	IC	
IC900	YEAMDA7331D	IC	
PA51	C5EA00000069	IC	
Q213	YEANC1623T1	Transistor	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q663	YEANA114EKTX	Transistor	
Q701	YEANC4480AN	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANC114YKTX	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKTX	Transistor	
Q707	YEANA114EKTX	Transistor	
Q708	2SD1994ATA	Transistor	
Q710	YEANC144EUTX	Transistor	
Q711	YEANC144EUTX	Transistor	
Q720	YEANHQ1F3PT1	Transistor	
Q721	YEANC144WKTX	Transistor	
Q901	YEANC1623T1	Transistor	
Q902	YEANA114EKTX	Transistor	
Q903	YEANC144EKTX	Transistor	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75884W	IC	
IC905	YEAMSBX8035F	IC	
Q902	YEANSSTA06T	Transistor	
Q903	YEANSSTA06T	Transistor	

2.2. Diodes

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
D201	MA151ATX	Diode	
D601	MA723TA	Diode	
D602	LN25RP	LED	
D603	MA151ATX	Diode	
D702	MA165TA	Diode	
D703	YEADRD56M3T1	Diode	
D704	MA723TA	Diode	
D706	YEADDAM3MA47	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	MA153TX	Diode	
D710	YEADRD27M2T1	Diode	
D711	MA4051LMTA	Diode	
D729	YEADRD10M1T1	Diode	
D803	MA151ATX	Diode	
D804	YEADRD51MBT1	Diode	
D901	YEADRD51MBT1	Diode	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
D900	LN1271RAL	LED	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8047MTX	Diode	

SUB BLOCK [E8496A]

Ref. No.	Part No.	Part Name & Description	Remarks
D641	LNJ306G5TUWQ	LED	
D643	LNJ306G5TUWQ	LED	

2.3. Capacitors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
C57	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C61	ECA1CSA470I	Electrolytic, 47µF 16WV	
C62	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C63	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C66	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C67	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C72	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C203	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C204	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C205	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C206	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C207	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C208	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C210	ECA1CSA470I	Electrolytic, 47µF 16WV	
C211	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C212	ECA0JSA220I	Electrolytic, 22µF 6.3WV	
C213	ECA1HSA010I	Electrolytic, 1µF 50WV	
C214	YECUS1C563KX	Ceramic, 0.056µF 16WV	
C215	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C216	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C217	ECA1CSA100I	Electrolytic, 10µF 16WV	
C218	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C219	YECUS1H392KX	Ceramic, 0.0039µF 50WV	
C220	ECA1HSA4R7I	Electrolytic, 4.7µF 50WV	
C224	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C227	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C230	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C231	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C232	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C241	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012µF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C244	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C248	ECA1CDT472Y	Electrolytic, 4700µF 16WV	
C303	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C304	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C305	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C306	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C307	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C309	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C310	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C311	ECEA1AKS221	Electrolytic, 220µF 10WV	
C313	ECA1CSA100I	Electrolytic, 10µF 16WV	
C314	YECUS1E393KX	Ceramic, 0.039µF 25WV	
C315	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C316	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C317	ECA1CSA470I	Electrolytic, 47µF 16WV	
C318	YECUS1E273KX	Ceramic, 0.027µF 25WV	
C319	YECUS1H392KX	Ceramic, 0.0039µF 50WV	
C320	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C321	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C322	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C324	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C327	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C330	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C331	ECSH1CX335CR	Tantalum, 3.3µF 16WV	
C341	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C344	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C345	YECUV2A122KX	Ceramic, 0.0012µF 100WV	
C346	YECUV1C105KX	Ceramic, 1µF 16WV	
C347	ECEA1AKS101	Electrolytic, 100µF 10WV	
C348	ECA1HSA2R2I	Electrolytic, 2.2µF 50WV	
C411	ECEA1AKS221	Electrolytic, 220µF 10WV	
C412	ECEA1AKS221	Electrolytic, 220µF 10WV	
C413	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1H220JM	Ceramic, 22PF 50WV	
C602	YECUS1H220JM	Ceramic, 22PF 50WV	
C603	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C605	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C607	EECS5R5T473	Electrolytic, 0.047FD 5.5WV	
C608	YECUV1H104KX	Ceramic, 0.1µF 50WV	
C609	YECUS1C124KX	Ceramic, 0.12µF 16WV	
C611	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C612	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C615	YECUV1H151JM	Ceramic, 150PF 50WV	
C616	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C617	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C620	YECUS1H150JM	Ceramic, 15PF 50WV	
C621	YECUS1H390JM	Ceramic, 39PF 50WV	
C650	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C660	ECA1HSA010I	Electrolytic, 1µF 50WV	
C662	ECA1CSA100I	Electrolytic, 10µF 16WV	
C685	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C686	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C687	ECA1CSA470I	Electrolytic, 47µF 16WV	
C690	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C701	ECEA1CKS101	Electrolytic, 100µF 16WV	
C702	ECA1HSA4R7I	Electrolytic, 4.7µF 50WV	
C703	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C704	ECEA1CKS101	Electrolytic, 100µF 16WV	
C705	ECA1HSAR47I	Electrolytic, 0.47µF 50WV	
C706	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C707	ECEA1AKS221	Electrolytic, 220µF 10WV	
C708	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C709	ECEA1AKS101	Electrolytic, 100µF 10WV	
C710	ECA1CDT102BQ	Electrolytic, 1000µF 16WV	
C716	ECA1CSA470I	Electrolytic, 47µF 16WV	
C718	YECUV1E334ZF	Ceramic, 0.33µF 25WV	
C719	YECUV1E334ZF	Ceramic, 0.33µF 25WV	
C720	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C721	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C722	ECEA1AKS221	Electrolytic, 220µF 10WV	
C723	ECEA1AKS221	Electrolytic, 220µF 10WV	
C724	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C725	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C727	ECEA1CKS101	Electrolytic, 100µF 16WV	
C728	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C741	ECEA1AKS101	Electrolytic, 100µF 10WV	
C810	ECA1CSA220I	Electrolytic, 22µF 16WV	
C811	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C812	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C813	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C814	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C901	YECUS1H270JM	Ceramic, 27PF 50WV	
C902	YECUS1H470JM	Ceramic, 47PF 50WV	
C903	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C904	ECA1CSA100I	Electrolytic, 10µF 16WV	
C905	YECUS1H271JM	Ceramic, 270PF 50WV	
C906	ECA1CSA470I	Electrolytic, 47µF 16WV	
C907	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C909	YECUS1H471JM	Ceramic, 470PF 50WV	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
C905	YECUM2A683JN	Plastic Film, 0.068µF 100WV	
C906	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C907	ECEV1CA220SR	Electrolytic, 22µF 16WV	
C910	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C923	YECUS1H681JM	Ceramic, 680PF 50WV	

2.4. Resistors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
J402	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J405	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J406	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J408	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J410	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J411	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J413	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J414	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J415	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J416	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J417	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J418	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J419	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J420	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J421	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J422	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J423	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J452	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J453	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R51	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R54	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R55	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R58	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R62	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R63	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R66	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R68	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R201	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R202	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R204	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R205	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R206	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R207	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R209	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R210	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R212	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R213	ERJ6GEYJ221	Chip, 220Ω 1/10W	
R215	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R216	ERJ6GEYJ105	Chip, 1MΩ 1/10W	
R219	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R220	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R221	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R222	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R226	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R230	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R235	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R240	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R241	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R242	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R243	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R250	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R255	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R256	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R301	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R302	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R304	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R305	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R306	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R307	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R309	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R310	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R319	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R320	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R321	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R322	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R330	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R335	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R340	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R341	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R342	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R343	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R344	ERJ8GEYJ223V	Chip, 22kΩ 1/8W	
R350	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R355	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R356	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R405	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R408	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R600	ERJ6GEYJ330	Chip, 33Ω 1/10W	
R601	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R602	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R605	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R606	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R608	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R609	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R615	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R617	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R618	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R619	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R629	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R630	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R631	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R632	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R633	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R634	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R635	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R636	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R637	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R638	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R639	ERJ6GEYJ184	Chip, 180kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R641	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R642	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R643	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R644	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R649	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R657	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R660	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R661	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R662	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R663	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R665	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R671	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R673	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R675	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R677	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R680	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R681	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R686	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R687	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R688	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R690	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R692	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R695	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R696	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R701	ERDS2FJ270	Carbon, 27Ω 1/4W	
R702	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R705	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R706	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R707	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R708	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ681	Carbon, 680Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R714	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R715	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R717	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R720	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R721	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R724	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R725	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R726	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R727	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R728	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R729	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R731	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R732	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R750	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R751	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R752	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R755	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R801	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R804	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R805	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R806	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R807	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R808	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R809	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R811	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R900	ERJ6GEYJ225V	Chip, 2.2MΩ 1/10W	
R902	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R903	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R904	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R905	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R906	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R930	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R931	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R961	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R962	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R963	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R964	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R965	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R970	ERJ6GEY0R00V	Chip, 0Ω 1/10W	

2.5. Connectors

MAIN BLOCK [E6730B]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ620	YEAES22B100B	Connector, 22P flexible	
CN201	YEAE012504	Connector, RCA REAR-OUT	
CN251	YEAE012709	Connector, 2P RCA	
CN252	YEAE012571	Connector, 2P RCA	
CN301	YEAE012505	Connector, RCA FRONT-OUT	
CN601	YEAE0115MX	Connector, 15P	
CN602	K1HA149A0001	Connector, 7P	
CN603	YEAE0104MX	Connector, 4P	
CN620	YEAE012659	Connector, 22P	
CN680	YEAE012307	Connector, 8P DIN	
CN701	YEAE012748	Connector, 16P	

DISPLAY BLOCK [E8597A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN901	YEAE012760	Connector, 14P	

SUB BLOCK [E8496A]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ640	YEAE0115MPA	Connector, 15P	
CJ642	YEAE0104MPA	Connector, 4P	
CP641	YEAE012761	Connector, 14P	

2.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW602	YEAS08042	Switch	
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	K0H1BA000285	Switch	
SW904	K0H1BA000285	Switch	
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	K0H1BA000285	Switch	
SW909	K0H1BA000285	Switch	
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	K0H1BA000285	Switch	
SW913	K0H1BA000285	Switch	
SW914	K0H1BA000285	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	K0H1BA000285	Switch	
SW918	K0H1BA000285	Switch	
SW610	YEAS09267	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL600	H0D125500002	Crystal OSC	
XL601	YEXLMC60327	Crystal OSC	
XL900	YEXL49U0433T	Crystal OSC	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT03A330KT	Coil	
L600	YELT02C470KT	Coil	
L602	YELT02C101KT	Coil	
L702	YETQ026F143	Coil	
L703	ELEAT330KA02	Coil	
L800	YELT02C101KT	Coil	
L900	YELT02C330KT	Coil	
L901	YELT02C330KT	Coil	
L901	YELT216825TG	Coil	
L902	YELTD75F101T	Coil	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	L5ACALC00003	LCD Display	

LAMPS

Ref. No.	Part No.	Part Name & Description	Remarks
Z50	YEAL02007T	Neon Lamp	
CFL931	A2CA00000013	Display Tube	

THERMISTOR

Ref. No.	Part No.	Part Name & Description	Remarks
PT701	YERT7AR4R7MT	Thermistor	

2.7. Accessories

PRINTING

Ref. No.	Part No.	Part Name & Description	Remarks
	YGFM282955	Operating Instructions	

INSTALLATION PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
	YEAJ02815	Power Cord	
	YEAA33144	Antenna Accessory	
	CR2025/1F	Battery	
	YEP9BS1111	Screws	
	YEFA131302	Removable Face Plate Case	
	YEFX0214198	Mounting Collar	
	YEFX9992012	Remote Controller	

2.8. Mechanical Parts

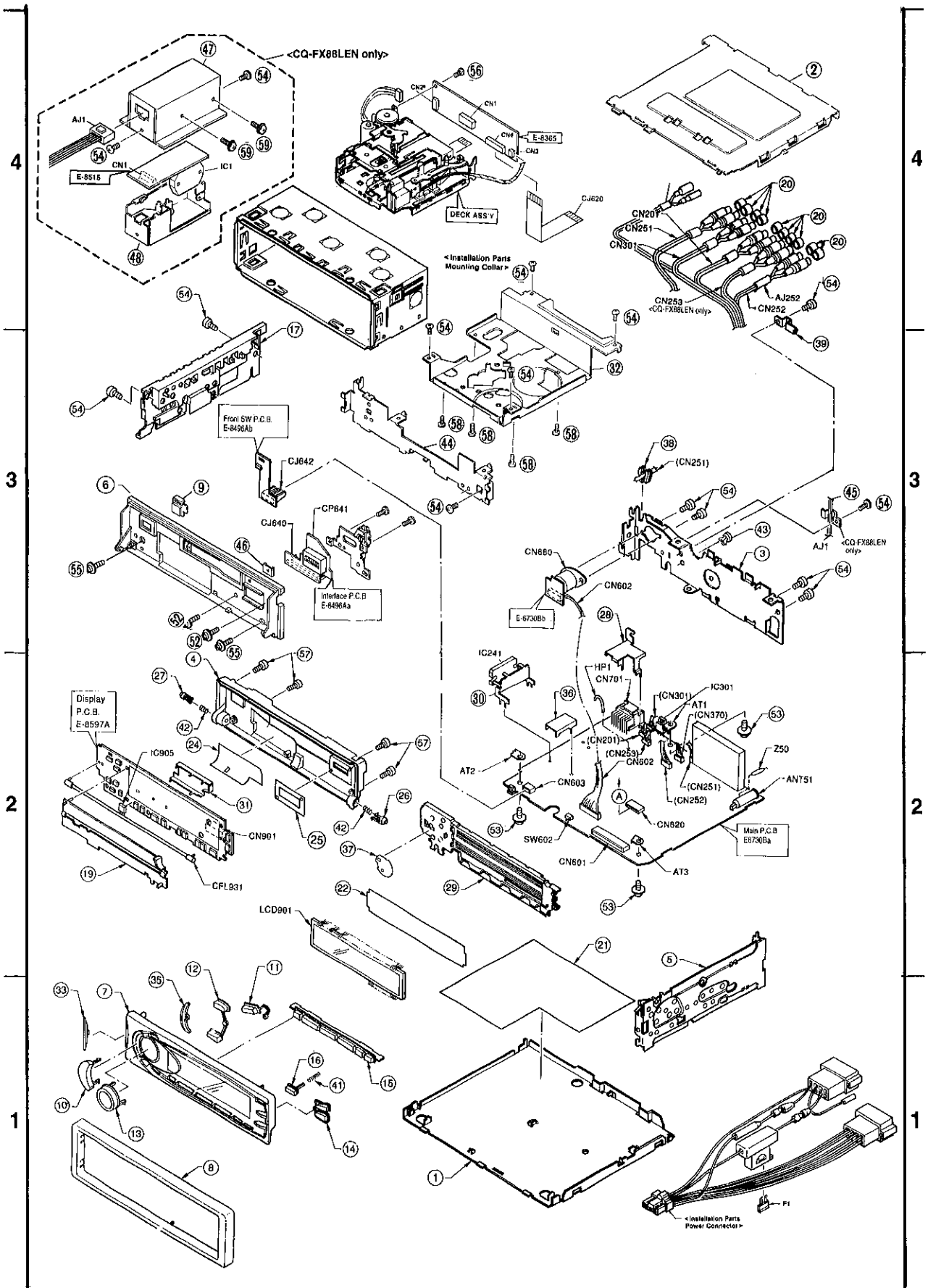
MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1 ⚠	YEAF02015	Fuse, 15A	
AJ252	YEAJ8VW3503	Tube	
ANT51	YEAA10090	Antenna Receptacle	
AT1-3	K4ZZ01000048	Terminal	
HP1	YEAT03324	Terminal	
1	YEFA05594B	Bottom Cover	(1-B)
2	YEFA031354D	Upper Cover	(4-C)
3	YEFA08494AK	Rear Plate	(3-C)
4	YEFA131413	Cover	(2-A)
5	YEFA09505	Side Plate	(1-C)
6	YEFC025659A	Escutcheon Ass'y, Unit	(3-A)
7	YEFC026115	Escutcheon Ass'y, Detachable	(1-A)
8	YEFC05570	Trim Plate	(1-A)
9	YEFE135147	Button, EJECT	(3-A)
10	YEFE135435	Button, VOL	(1-A)
11	YEFE135436	Button, SEL	(1-A)
12	YEFE135713	Button, BAND/SOURSE	(1-A)

Ref. No.	Part No.	Part Name & Description	Remarks
13	YEFE135439	Button, TUNE/TRACK	(1-A)
14	YEFE135534	Button, TA/AF	(1-A)
15	YEFE135536	Button, PRESET	(1-A)
16	YEFE135442	Button, OPEN	(1-A)
17	YEFF01922	Heat Sink	(3-A)
19	YEFK06835	Holder, LCD	(2-A)
20	YEFR04187	Lead Cap	(4-C)
21	YEFV011813	Insulator	(1-B)
22	YEFV021596	Optical Shade	(2-B)
24	YEFV03457	Magnetic Shield	(2-A)
25	YEFV011928	Insulator	(2-A)
26	YEFW04156	Shaft Collar	(2-B)
27	YEFW04157	Shaft Collar	(2-A)
28	YEFX0214422	Bracket, CN701	(3-B)
29	YEFX0011903	Transparent Plate	(2-B)
30	YEFX0213945B	Bracket, IC241	(2-B)
31	YEFX0214625	Bracket, Inverter	(2-A)
32	YEFX0214197B	Bracket, Deck	(3-B)
33	YEFX0011904	Transparent Plate, L	(1-A)
35	YEFX0011905	Transparent Plate, R	(1-A)
36	YEFX0214168	Bracket, IC704	(2-B)
37	YEFX025137A	Color Screen	(2-B)
38	YEFX007380	Cord Clamper, CN251	(3-B)
39	YAFX016027	Cord Clamper	(3-C)
40	YEP9FX069	Hook Bracket Ass'y	(3-B)
41	YEFX0052396	Spring, Open	(1-A)
42	YEFX0052253	Spring	(2-A) (2-B)
44	YEP9FX066A	Front Chassis Ass'y	(3-B)
46	YEFX0011816	Transparent Plate	(3-A)
51	YEJS06092	Screw, 3mm * 10mm	
52	YEJS03020	Screw, 2mm * 4mm	
53	YEJT03009	Tapping Screw, 3mm * 8mm	
54	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
55	YEJT03156	Tapping Screw, 2.6mm * 4mm	
56	YEJT03163	Tapping Screw, 2mm * 6mm	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	
58	YEJS03022	Screw, 3mm * 3mm	

EXPLODED VIEW (Unit)

■ Numbers in ○ are indicated REF.NO. in the REPLACEMENT PARTS LIST



3 Tape Player Parts

3.1. IC's and Transistors

[E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1	YEAMLB1641	IC	
IC2	YEAMCX2510AQ	IC	
Q1	YEANB1237QRT	Transistor	
Q2	YEANC113ZKTX	Transistor	
Q3	YEANC113ZKTX	Transistor	
Q4	YEANC113ZKTX	Transistor	

3.2. Diodes

[E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEAD11ES2	Diode	
D2	YEADRD43EST1	Diode	

3.3. Capacitors

[E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
C1	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C2	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C3	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C4	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C5	ECEA1AKS330I	Electrolytic, 33µF 10WV	
C6	ECEA1CKS470I	Electrolytic, 47µF 16WV	
C7	ECEA1CKS470I	Electrolytic, 47µF 16WV	
C8	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C9	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C10	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C11	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C12	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C15	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C16	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C17	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C18	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C19	YECUS1H391JM	Ceramic, 390PF 50WV	
C20	YECUS1H391JM	Ceramic, 390PF 50WV	
C21	YECUS1H391JM	Ceramic, 390PF 50WV	
C22	YECUS1H391JM	Ceramic, 390PF 50WV	
C24	YECUS1H822KX	Ceramic, 0.0082µF 50WV	

3.4. Resistors

[E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
J101	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J102	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J103	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J104	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J105	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J106	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J107	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J108	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J109	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J110	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J111	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J112	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J113	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J114	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J115	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J116	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J117	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J118	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J119	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J120	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J121	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J122	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J123	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J124	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J125	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J126	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R1	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R2	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R3	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R4	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R5	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R6	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R7	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R8	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R9	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R12	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R13	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R14	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R15	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R17	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R18	ERG1SJ100	Metal Oxid, 10Ω 1W	
R19	ERJ6GEYJ121	Chip, 120Ω 1/10W	
R22	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R23	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R24	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R25	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R26	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R27	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R28	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R29	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R30	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R31	ERJ8GEYJ152V	Chip, 1.5kΩ 1/8W	
R33	ERJ8GEYJ101V	Chip, 100Ω 1/8W	

3.5. Connectors

[E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	YEAE5597A09	Connector, 9P	
CN2	YEAE5325404	Connector, 4P	
CN3	YEAE012684	Connector, 5P	
CN4	YEAE012659	Connector, 22P	

3.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW1	YEAS08031B62	Switch	

VARIABLE RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
VR1	EVNDCAA03BQ2	Variablr resistor	
VR2	EVNDCAA03BQ2	Variablr resistor	

OTHER

Ref. No.	Part No.	Part Name & Description	Remarks
TP201	YEAT03240	Terminal	
TP301	YEAT03240	Terminal	

3.7. Mechanical Parts

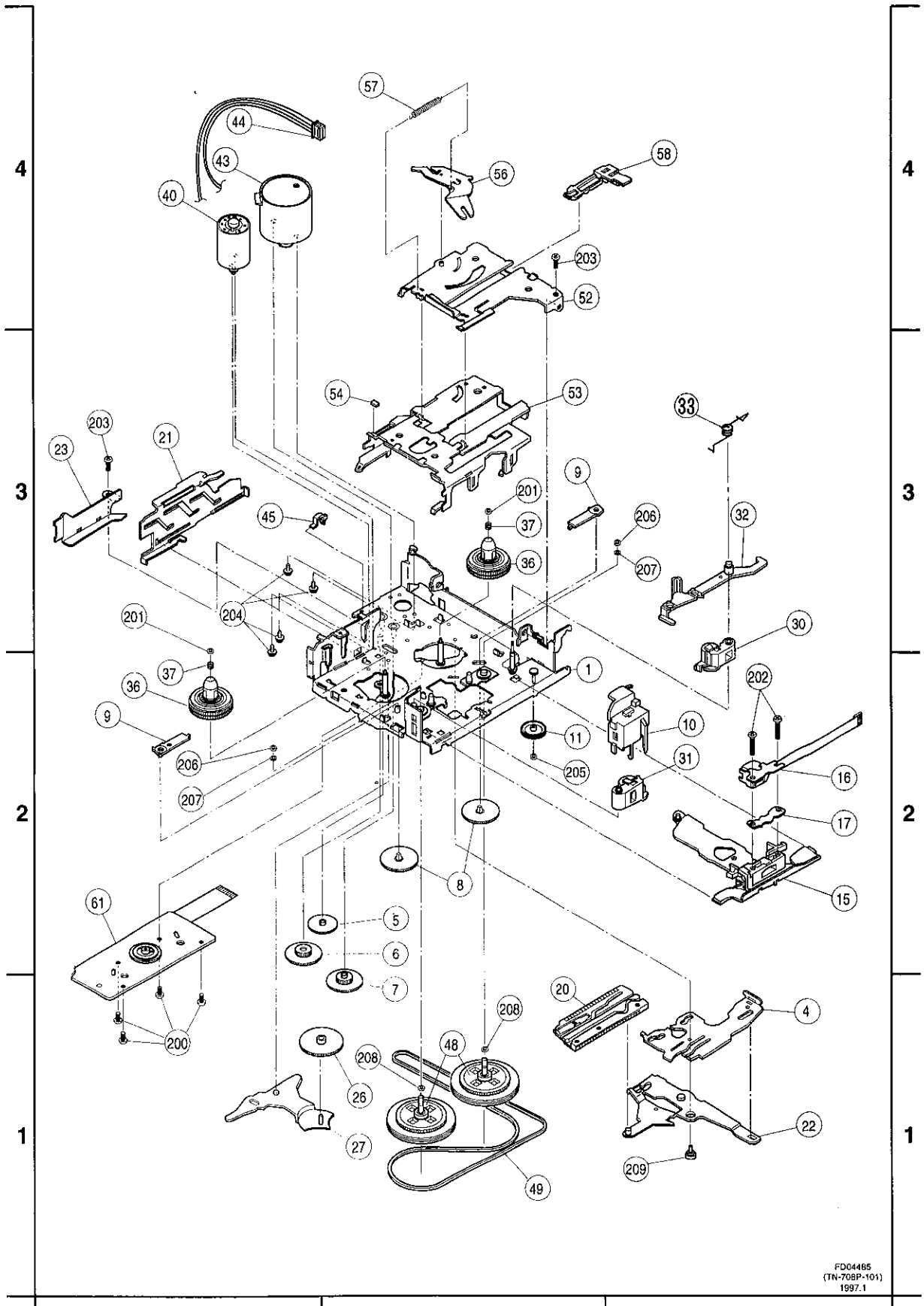
MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
1	YESFA01055	Chassis Rivet Ass'y	(2-B)
4	YESFX046056	Main Plate	(1-C)
5	YESFX003049	B Gear	(2-B)
6	YESFX003050	C Gear	(2-A)
7	YESFX003051	D Gear	(1-B)

Ref. No.	Part No.	Part Name & Description	Remarks
8	YESFX003052	P Gear	(2-B)
9	YESFX003053	P.G Plate	(2-A) (3-B)
10	YESFG02021	Guide BKT	(2-C)
11	YESFX026013	Middle Pulley	(2-B)
15	YESFX046057	Head Panel Ass'y	(2-C)
16	YESAH006	P.Head P-5544SD-9949	(2-C)
17	YESFX046058	Head SP Plate	(2-C)
20	YESFX046059	O.P Plate Ass'y	(1-B)
21	YESFX215015	Eject Lever Rivet Ass'y	(3-A)
22	YESFX046060	S.B Plate Rivet Ass'y	(1-C)
23	YESFX046061	O.P Plate Holder	(3-A)
26	YESFX003054	FR Gear	(1-B)
27	YESFX046062	FR Plate	(1-A)
30	YESFX218011	Pinch Roller Arm (F) Ass'y	(3-C)
31	YESFX218012	Pinch Roller Arm (R) Ass'y	(2-C)
32	YESFX046063	SW Actuator B	(3-C)
33	YESFX005088	SA Spring M	(3-C)
36	YESFX209007	Reel Ass'y	(2-A) (3-B)
37	YESFX005074	B.Tension Spring (F)	(2-A) (3-B)
40	YESAK01013	Sub Motor Ass'y	(4-A)
43	YESAK01014	Main Motor Ass'y	(4-A)
44	YESAE283	M Conector Ass'y	(4-A)
45	YESFX006002	Wire Clamper	(3-A)
48	YESFX213004	FL Capstan Ass'y	(1-B)
49	YEFSFR03003	Main Belt	(1-B)
52	YESFX046064	Case Lifter	(4-B)
53	YESFX239006	Cassette Case	(3-B)
54	YESFS04007	Cusion Rubber	(3-B)
56	YESFX046065	P.S Actuator Plate	(4-B)
57	YESFX005075	P.S Spring	(4-B)
58	YESFX046066	Pack Slider	(4-B)
61	YESAP151	Reel PWB Ass'y	(2-A)
200	YESJS01090	Camera Screw (Tams) 2.0×2.2	(1-A)
201	YESJW01019	Lumilar Washer (Cut) 1.55×3.5×0.5	(3-A) (3-B)
202	YEJS01070	Adjust Screw 2.0×13	(2-C)
203	YEFT03084	Camera Tapping Screw S 2.0×3.0	(3-A) (4-B)
204	YEJS06130	Tams Screw 2.0×3.0	(3-A)
205	YEJW05130	P.Washer (Cut) 0.85×2.8×0.25	(2-B)
206	YESJW01012	P.Washer (Cut) 1.55×3.5×0.5	(2-A) (3-C)
207	YESJW01013	P.Washer 2.1×3.5×0.2	(2-A) (3-C)
208	YESJW01014	Lumilar Washer 2.1×3.5×0.1	(1-B)
209	YESJS01091	PK Collar Screw A	(1-C)

EXPLODED VIEW (Tape Deck)

■ Numbers in ○ are indicated REF.NO. in the REPLACEMENT PARTS LIST



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